

September
1954

COMMERCIAL FERTILIZER

Year Book



**Products
for
Profitable
Farming**

NITROGEN SOLUTIONS
AMERICAN NITRATE OF SODA
A-N-L® NITROGEN FERTILIZER
UREA 45
UREA FEED MIXTURE
SULPHATE OF AMMONIA
ANHYDROUS AMMONIA

New York 6, N. Y. • Hopewell, Va.
Columbia 1, S. C. • Atlanta 3, Ga.
Ironton, Ohio • Omaha 7, Neb.
Indianapolis 20, Ind. • San Francisco 3, Calif.

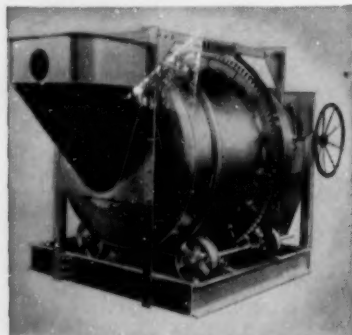
NITROGEN DIVISION

ALLIED CHEMICAL & DYE CORPORATION

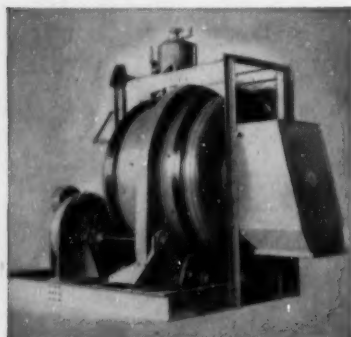




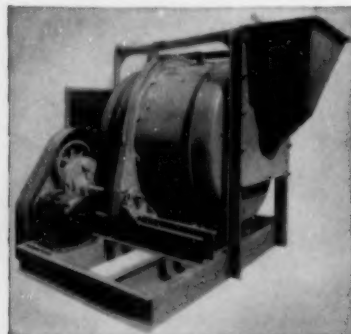
**CHEMICALS • DRUGS • PLASTICS • METALS
FOOD • CANDY** — Pan tilted and rotated by motors.



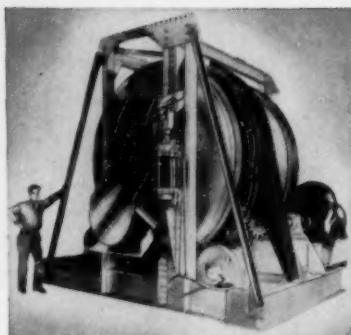
SOAP POWDER • PIPE TOBACCO • SNUFF —
Dust-proof mixer for blending and mixing.



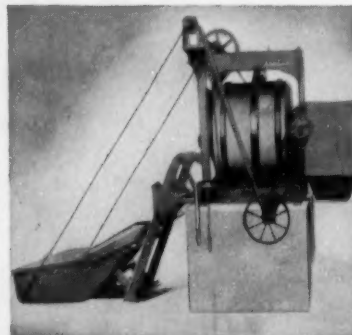
CHEMICALS — Equipped with liquid measuring tank
for use in various chemical applications.



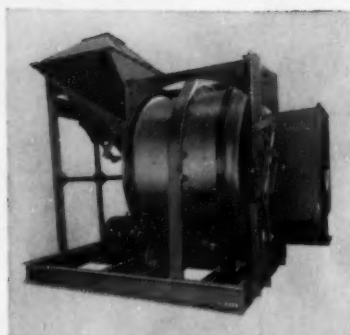
**COMPOSITION MATERIALS • INSULATING AND
REFRACTORY CHEMICALS • CLAY • GLASS
BATCHES • FOUNDRY CORE SAND** — 13 cu ft dry
mixer.



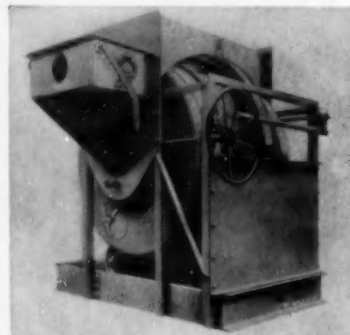
FURNACE CHARGES — One of the largest industrial
mixers.



GLASS BATCHES • REFRACTORY CEMENT — 28 cu
ft mixer with elevating power loader.



ENAMEL FRITS • GLASS — 50 cu ft. Fully-automatic,
electrically controlled charging and discharging.



FERTILIZER — Standard sizes, 1/2-, 1-, 2-, 3-ton capac-
ity. Also used for asbestos products, etc.

What Do You Mix?

● Here's a partial line-up of industrial mixers bearing the famous Worthington trade-mark—which means the right design for every type of mix.

And you'll find in every mixer the following Worthington features:
thorough, fast mixing (or blending) of even the finest dry materials
or colors in any proportion . . . *clean* discharge . . . *dust-proof* design
(where required) . . . *heavy-duty* construction.

For solutions of your particular mixing problems
or for free bulletins, write:

Worthington Corporation
Industrial Mixer Division
Plainfield, New Jersey

YR.3.7

WORTHINGTON



HOW DOES *Business* YOUR ~~GARDEN~~ GROW?

Your business as a fertilizer manufacturer grows best when the farmer's crops grow best. And the growth of both is stimulated by the same outstanding Fertilizer ingredient . . . Organic Nitrogen.

There is no better source of Organic Nitrogen than SMIROW TANKAGE. It is 100% natural organic. It is consistently high in water insolubility and availability, testing approximately 90%. SMIROW TANKAGE is uniform both in color and texture.

The sure way to make your sales grow is to see that correct proportions of SMIROW TANKAGE assure the top quality that farmers seek in your goods.

- We will gladly send samples and prices.



**SMIROW
TANKAGE**
MAKES PLANTS GROW



SMITH-ROWLAND COMPANY

NORFOLK, VIRGINIA



GRANITE CITY, ILLINOIS



Three of the A.A.C. Co's electrically-operated draglines at work at our phosphate mines in Central Florida. Bucket capacities range from 9½ to 17 cubic yards. The 17-yard draglines with their 175-foot booms each weigh more than a million and a half pounds and can move 35,000 tons of material in 24 hours. From these rock deposits flow a continuous stream of high quality phosphate rock, assuring a dependable source of supply of AA QUALITY phosphorus products, see list below.

AA Quality...

for over 85 years a symbol of quality and reliability

principal AA QUALITY products

All grades of Florida Pebble Phosphate Rock

AA QUALITY Ground Phosphate Rock

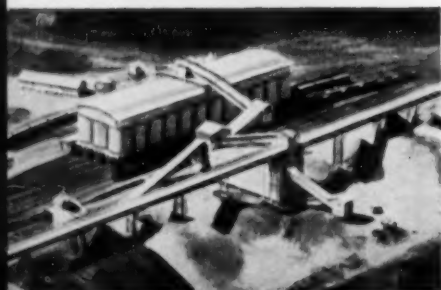
All grades of Complete Fertilizers Superphosphate

Gelatin Bone Products Salt Cake Ammonium Carbonate

Sulphuric Acid Fluosilicates Insecticides and Fungicides

Phosphoric Acid and Phosphates

Phosphorus and Compounds of Phosphorus



From the air—wet rock storage and drying plant, with dry rock storage silos in background. These silos, 29 in number, have a total capacity of 40,000 tons of dried rock. Under the silos are four runways where 40 railroad cars can be loaded at a time.

THE AMERICAN AGRICULTURAL CHEMICAL COMPANY

GENERAL OFFICE: 50 CHURCH STREET, NEW YORK 7, N. Y.

30 FACTORIES AND SALES OFFICES, SERVING U. S., CANADA AND CUBA—ASSURE DEPENDABLE SERVICE

What do we know about your business?

When you have Fertilizer Plant needs



Extensive research and investigation of all the facts are necessary to make the building of a fertilizer plant economically sound. Many years of experience in the fertilizer industry have made Harte engineers cognizant of the over-all picture to be considered in fertilizer plant design. Realizing that certain fundamentals must be followed while specializing the design of each plant, all possible facts are studied and adapted to produce a sound, enduring investment.

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JOHN J. HARTE COMPANY | ENGINEERS
CONSTRUCTION MANAGERS

SPECIALISTS IN THE FOLLOWING PROCESSES:

- Solvent Extraction Systems • Sulphuric Acid • Vitamin Recovery • Synthetic Detergents
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- Steam Generating & Power Plants • Milk By-Products • Naphthalene & Tar Plants

COMMERCIAL FERTILIZER

YEAR BOOK

1954 EDITION

Chicago Representative
ELON A. ABERNETHY

1200 N. Ashland Ave.—Room 544
Phone CApitol 7-4111

West Coast Representative

M. A. CALDWELL
2267 W. 24th St., Los Angeles, Cal.
Phone REPUBLIC 1-3050

ESTABLISHED 1910

September, 1954

Vol. 89, No. 3A

Published by

WALTER W. BROWN PUBLISHING CO., INC.

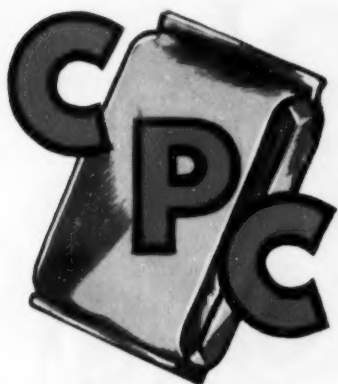
75 Third St. N. W., Atlanta, Georgia Phone Atwood 4160

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COMMERCIAL FERTILIZER entered as second class matter, October 12, 1910, at the post office at Atlanta, under the Act of March 3, 1879. Published monthly except semi-monthly in September, by Walter W. Brown Publishing Co., Inc., 75 Third St., N. W., Atlanta, Georgia

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nature's
own packaging**



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Our new plant is completely equipped with the latest multi-color printing and bag making machinery.

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**CLOSES OPEN-MOUTH, MULTIWALL
PAPER BAGS SEMI-AUTOMATICALLY...
TAPES AND SEWS 15 BAGS A MINUTE...
TEAMS UP WITH YOUR EXISTING FILLING
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PACKAGING EFFICIENCY**

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Model ET applies famous "Cushion-Stitch" over dry tape for self-proof closure. Model E-1 applies "Cushion-Stitch" only, for use where self-proofing is not essential.



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**One-Stop
Nitrogen
Service . . .
for fertilizer
manufacturers**



LION Nitrogen

FERTILIZER MATERIALS

LION ANHYDROUS AMMONIA—For formulation. A uniformly high-quality basic product. Nitrogen content, 82.25%.

LION AQUA AMMONIA—For formulation or acid oxidation. Ammonia content about 30%. Other grades to suit you.

LION AMMONIUM NITRATE FERTILIZER—For direct application or formulation. Improved spherical pellets. Guaranteed 33.5% nitrogen.

LION NITROGEN FERTILIZER SOLUTIONS—For formulation. Three types to suit varying weather and manufacturing conditions.

LION SULPHATE OF AMMONIA—For direct application or formulation. Large free-flowing crystals. Guaranteed nitrogen content, 21%.

TECHNICAL SERVICE—Lion provides special technical assistance for fertilizer manufacturers. Write to **CHEMICAL SALES DIVISION** for quick service.

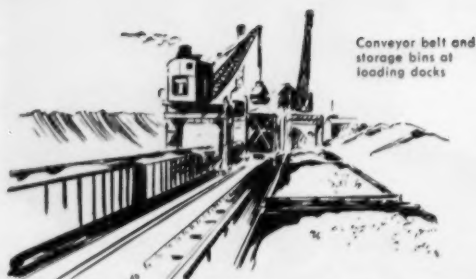
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Conveyor belt and
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loading docks

Crude Sulphur

for Industrial Use

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the
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your reliable source of NATURAL ORGANIC NITROGEN

Leading brands of premium fertilizers are formulated with Hynite tankage — high-quality Natural Organic Nitrogen. Hynite is high in nitrogen, with high availability, and low water solubility.

Hynite can make sales for you. Many thousands of farmers demand Natural Organic Nitrogen in the fertilizers they buy. They consider it necessary for uniform feeding of the crop throughout the season.

Hynite is a pure animal ammoniate — entirely organic. It contains trace minerals which often are important to crop response. Used in sufficient quantities, it will improve the condition of your mixed fertilizers.

Assure yourself of adequate supply and uniform quality. Send your order or write for literature describing Hynite and its uses.

UNITED FERTILIZER CO.
CARROLLVILLE, WISCONSIN



Hynite
TRADE TANKAGE MARK
REGISTERED
AN ANIMAL AMMONIATE

A Non-Leaching
NATURAL ORGANIC

Highest availability • Carries valuable minor elements

FULTON'S FAMOUS FOR:



FULTON QUALITY COTTON BAGS

Whether they're plain white sheeting or colorful prints, Fulton's Cotton Bags are welcomed by farm families as valuable sewing material. They stack, store and handle easier — less waste from breakage.

FULTON QUALITY BURLAP BAGS

Burlap is here again with all its toughness and durability — and at the most attractive prices in years! As large direct importers of burlap, Fulton Burlap Bags are your assurance of uniform quality.

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FULTON MULTIWALL PAPER BAGS

Multiwalls of all types — pasted or sewn bottom, open mouth or valve, in every size, are now being manufactured in both the New Orleans and the new Los Angeles plant for speedy, coast-to-coast service.

EAGLE SAIL TWINE and MACHINE THREAD

Manufactured by Fulton also. Let us supply you with these products.

MURIATE OF POTASH FOR THE FERTILIZER INDUSTRY

**HIGRADE
MURIATE OF POTASH**

62/63% K_2O

**GRANULAR
MURIATE OF POTASH**

60% K_2O Minimum

**UNITED STATES
POTASH COMPANY**

INCORPORATED

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Southern Sales Office

Rhodes-Haverty Building, Atlanta, Georgia

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switch to
KRAFT-lok[®]
bags!

89.6% of our customers who used L. C. Sleeves and other internal sleeve type bags have switched to KRAFT-lok — without any increase in cost.

The integral construction of this exclusive Kraft Bag feature solves all those tricky closure problems peculiar to bagging granular material.

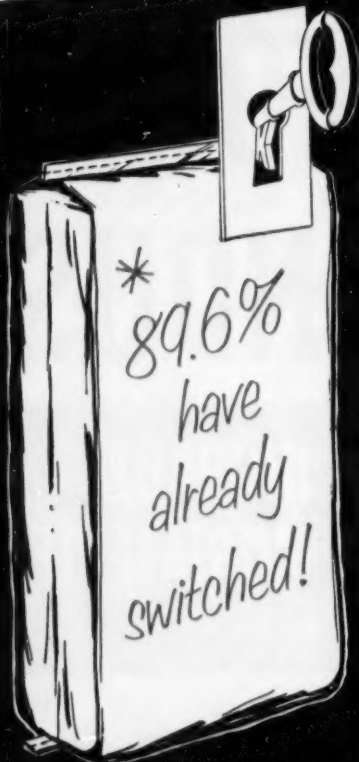
KRAFT-lok also gives you the extra extension, the extra protection, and the extra production you simply cannot get in conventional type valve bags.

For demonstration without obligation... fill out coupon below, attach to your Company letterhead and send to us at once:

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TITLE _____
COMPANY _____
ADDRESS _____
CITY _____ STATE _____

10 good reasons why packers of granulated fertilizer prefer KRAFT-lok Bags:

- 1 Eliminates snagging on packer tubes.
- 2 More flexible valve area improves bag handling.
- 3 Prevents torn sleeve particles from contaminating material.
- 4 Speeds up filling operations by more efficient "venting."
- 5 Slows up spilling in filling.
- 6 Reduces leakage in closing.
- 7 Actually seals material inside bag automatically.
- 8 Minimizes sifting in handling.
- 9 Makes a cleaner, more satisfactory package in all ways.
- 10 Saves dollars all around.



1 Responsibility
2 Integrated Plants
3 Generations of Bag Experience

KRAFT BAG CORPORATION

Gilman Paper Company Subsidiary

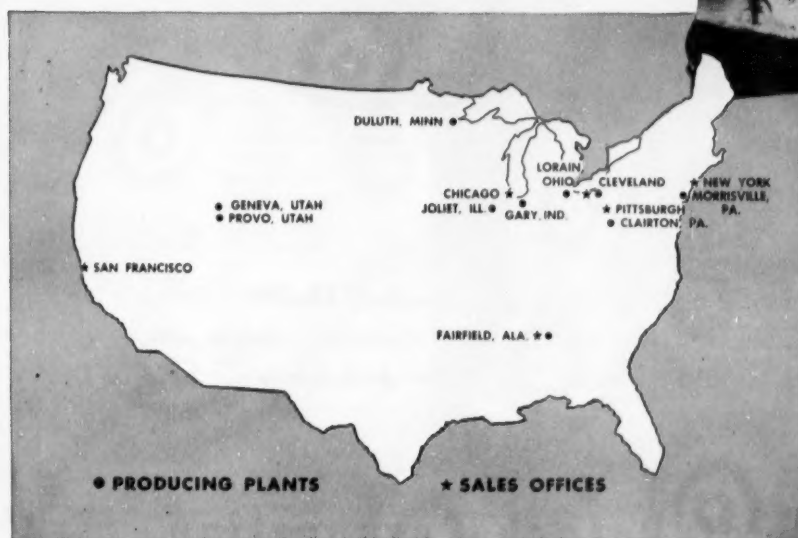
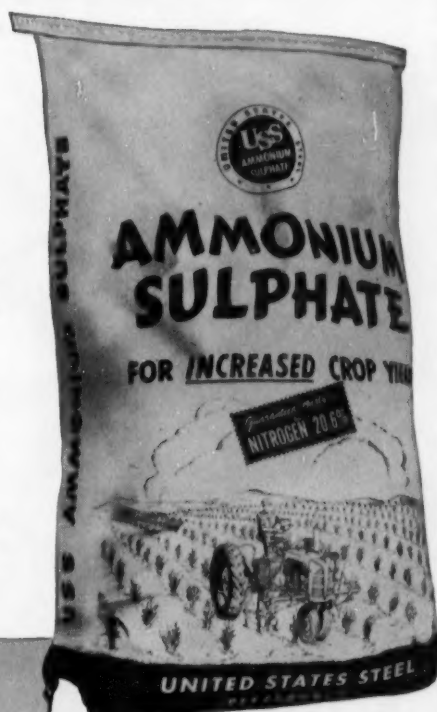
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More farmers want high-nitrogen fertilizers ...with USS Ammonium Sulphate

Farmers are finding that high-nitrogen fertilizers mean greater yields and greater profits for them. As a result, there are greater profits in store for you in the sale of 8-8-8 and 10-10-10.

To take advantage of this farmer interest in nitrogen, be sure that your mixed fertilizers get their nitrogen from a top quality, dependable source . . . USS Ammonium Sulphate. It's dry, free-running and less corrosive to equipment. And you'll find that it's an easy mixer too.

For complete information on USS Ammonium Sulphate, contact our nearest Coal Chemical sales office, or write directly to United States Steel Corporation, 525 William Penn Place, Pittsburgh 30, Pennsylvania.



When a direct application of nitrogen is recommended, sell your customer non-leaching USS Ammonium Sulphate. It comes in sturdy, moisture-proof 100 pound bags. The bright yellow bag with the green label signifies another USS quality product for the farm.

USS AMMONIUM SULPHATE



4-1877

UNITED STATES STEEL



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THIS symbol stands for high-grade coarse and uniform Muriate of Potash (60% K_2O minimum). Southwest Potash Corporation provides a dependable supply of HIGH-K* Muriate for the plant food industry.

*Trade Mark

Southwest Potash Corporation

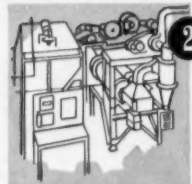
100 BROADWAY * NEW YORK 6, N. Y.

USE THIS 6-POINT "TURN-KEY" SERVICE

LINK-BELT offers unified responsibility for design, equipment and erection of complete, modern fertilizer plants



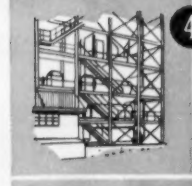
1 **MODERN LABORATORIES** have both miniature and full-scale facilities—offer free testing service on a few pounds or full carloads of your material. Link-Belt will also lease equipment for work in your plant.



2 **PILOT PLANT** and testing station, operated in cooperation with a leading university, continually works to find new ways to improve commercial fertilizer... adapt laboratory procedures to plant conditions.



3 **ENGINEERING** based on broad, practical experience, assures better equipment that often permits use of lower cost ingredients. Other developments have reduced processing time, saved storage space.



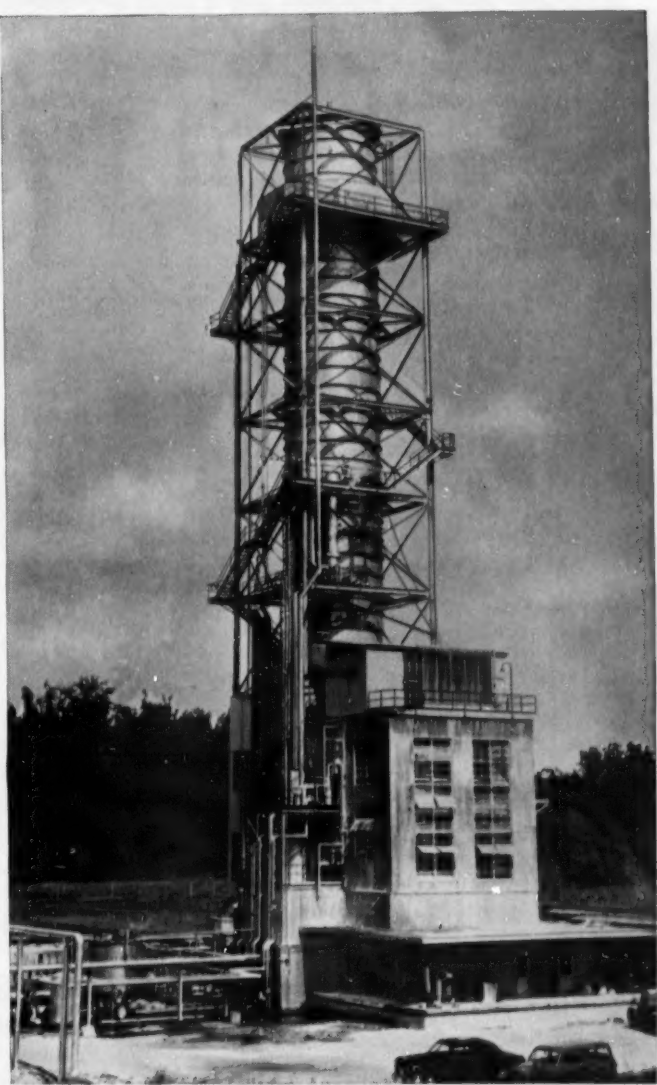
4 **LINK-BELT EQUIPMENT** includes dryers, coolers, granulating drums, disintegrators, continuous mixers, ammoniators, roll crushers, all types of conveyors & elevators, vibrating screens, all types of chains & power transmission machinery.



5 **SKILLED ERECTION CREWS** When you rely on Link-Belt as a single source, Link-Belt accepts responsibility for placing your plant in full operating readiness. We will also supervise modernizing existing plants.



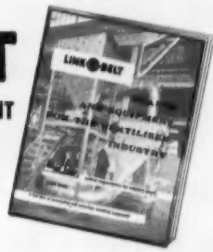
6 **SATISFACTORY PERFORMANCE** can be furnished by Link-Belt. Link-Belt experience includes dry-mix, superphosphate, nitrophosphate, ammonium nitrate, ammonium sulphate, urea, granulation and other plants.



In this southern ammonium nitrate plant, Link-Belt supplied conveying, drying, cooling, mixing, elevating and screening equipment for a fully integrated system.

Get all the facts on how Link-Belt's unified responsibility for complete plants helps you produce better fertilizer at lower cost. Write for new 16-page Book 2459, or ask your nearby Link-Belt district sales office for your copy.

LINK-BELT
CONVEYING AND PROCESSING EQUIPMENT



18,200-A

LINK-BELT COMPANY: Executive Offices, 307 N. Michigan Ave., Chicago 1. To Serve Industry There Are Link-Belt Plants and Sales Offices in All Principal Cities. Export Office, New York 7; Canada, Scarboro (Toronto 13); Australia, Marrickville, N.S.W.; South Africa, Springs. Representatives Throughout the World.

Labor-saving, profit-making farm chemicals from CYANAMID

NITROGEN FERTILIZERS

AERO® Ammonium Sulphate—a 21% nitrogen, free-flowing material, for manufacturing mixed fertilizers and for direct application.

AERO® Cyanamid, Granular—20% nitrogen. For direct application . . . plow down . . . weed control.

AERO® Cyanamid, Granular, Mixers Grade—20% nitrogen.

AERO® Cyanamid, Mixers Pulverized—21% nitrogen.

AEROPRILLS® Fertilizer Grade Ammonium Nitrate—33.5% nitrogen.

WETTING AGENTS

VATSOL® OT—one of the most powerful wetting agents available. Several grades available.

VATSOL OT-B—free-flowing white powder, spray-dried in very fine form, high rate of solubility.

HIGH GRADE FLORIDA PHOSPHATE ROCK

Washed and Dried Pebble Rock—for manufacture of superphosphate and phosphatic compounds.

Ground Florida Phosphate—various fine grinds for acidulation.

AERO-PHOS® Florida Natural Phosphate 31% and 33% Total P_2O_5 —finely ground. Applied directly for soil improvement.

FUMIGANTS

AERO® HCN Discoids—cellulosic discs saturated with hydrocyanic acid, for industrial fumigation.

AERO® Liquid HCN—cylinders of hydrocyanic acid, for quick, clean control of insect and rodent infestation.

ACRYLON® Fumigant—for spot fumigation.

DEFOLIANTS

AERO® Cyanamid, Special Grade—cotton defoliation, weed control and other uses.

AERO® Cyanamid, Soluble—for cotton defoliation where it is desirable to use a spray.

AERO® Cyanate, Weedkiller—for onions and other crops.

Potassium Cyanate—for crabgrass and chickweed compounds.

INSECTICIDES AND RODENTICIDES

THIOPHOS® Parathion—outstanding technical material for parathion insecticides.

MALATHION† Technical—combines low mammalian toxicity with high insect toxicity. Controls mites, aphids and many other insects on fruits, vegetables, ornamentals. Highly effective in controlling flies—even those resistant to DDT.

CYANOOGAS® Calcium Cyanide

CYANOOGAS ANT KILLER—sea-sand size. Kills ants in their nests.

CYANOOGAS A-DUST—finely powdered. Kills insect and rodent pests in their nests or burrows.

CYANOOGAS G-FUMIGANT—sea-sand size. For control of insects and rodents in greenhouses and mushroom houses. Mixed with grain to control infestation in elevators.

CYANOOGAS FLAKES—for control of prairie dogs.

CYANOOGAS FOOT PUMP—rugged duster for application of Cyanogas A-Dust.

SOIL CONDITIONER

AEROTIL® Soil Conditioner—active ingredient hydrolyzed polyacrylonitrile. Dry form, 40% active ingredient; wettable flakes, 83% active ingredient.

See your supplier. Write for descriptive literature.

AMERICAN Cyanamid COMPANY

AGRICULTURAL CHEMICALS DIVISION

30 Rockefeller Plaza, New York 20, N. Y.

STEDMAN

FERTILIZER PLANT EQUIPMENT



All Steel Self-Contained Fertilizer Mixing and Bagging Units

Batch Mixers — Dry Batching Pan Mixers — Wet Mixing

Tailings Pulverizers — Swing Hammer and Cage Type

Vibrating Screens Dust Weigh Hoppers Acid Weigh Scales

Batching Hoppers

Belt Conveyors — Stationary and Shuttle Types

Bucket Elevators

Hoppers and Chutes

ALL-STEEL SELF-CONTAINED ONE TON
MIXING AND BAGGING UNIT.

Stedman

FOUNDRY & MACHINE CO., INC.

SUBSIDIARY OF UNITED ENGINEERING & FOUNDRY CO. • GENERAL OFFICES & WORKS • AURORA, INDIANA

● Builders of Dependable Machinery Since 1834

TYPICAL ANALYSIS CHART

for Monsanto Soil Nutrient Chemicals

| PROPERTIES | MONOAMMONIUM PHOSPHATE | DIAMMONIUM PHOSPHATE | MONOPOTASSIUM PHOSPHATE | PHOSPHORIC ACID 75% |
|-------------------------------------|---|---|---|---|
| Appearance | Crystals | Crystals | Crystals | Liquid |
| Containers | 100-lb. bags 300-lb. fibre drums | 100-lb. bags 300-lb. fibre drums | 100-lb. bags 150-lb. kegs 350-lb. barrels | Tank cars 675-lb. barrels 170-lb. glass carboys |
| Mesh size % retained | 12 mesh = 1.0% | 12 mesh = 1.0% | 16 mesh = 0.5% | |
| Mesh size Cumulative retained | #70 mesh 90.0% (through #70 mesh 10.0%) | #70 mesh 90.0% (through #70 mesh 10.0%) | #50 mesh 80.0% (through #50 mesh 20.0%) | |
| N | 12.2 | 21.0 | - 0 - | - 0 - |
| P2O5 | 61.6 | 53.8 | 51.6 | 54.5 |
| K2O | - 0 - | - 0 - | 34.2 | - 0 - |

WATER-SOLUBLE PLANT NUTRIENTS

Fertilizer manufacturers capitalizing on the trend toward water-soluble fertilizers are invited to profit by Monsanto's increased production of Monoammonium Phosphate, Diammonium Phosphate, Monopotassium Phosphate, Phosphoric Acid 75%. Also applicable to dry formulations.

These new products can readily lead to new profits from high-analysis

plant foods which combine nitrogen, phosphorus, potash and, in many cases, herbicides and insecticides.

Typical analysis data for Monsanto Soil Nutrient Chemicals is given in the table above. For more information, contact any Monsanto District Sales Office, or write MONSANTO CHEMICAL COMPANY, Inorganic Chemicals Division, 710 North 12th Street, St. Louis 1, Missouri.

DISTRICT SALES OFFICES: Birmingham, Boston, Charlotte, Chicago, Cincinnati, Cleveland, Detroit, Los Angeles, New York, Philadelphia, Portland, Ore., San Francisco, Seattle. In Canada, Monsanto Canada Limited, Montreal.



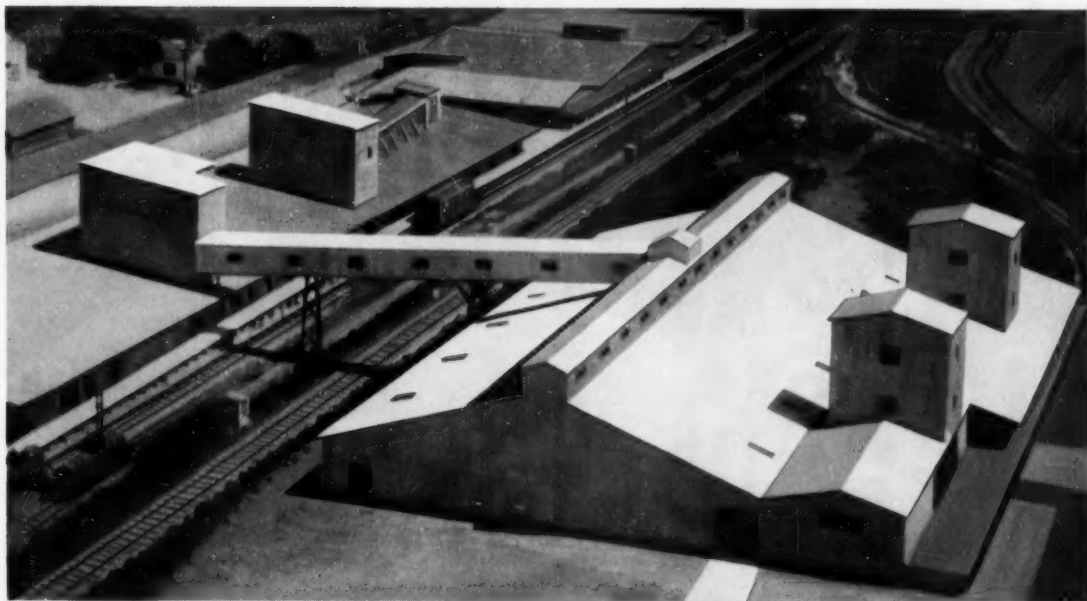
Serving Industry... Which Serves Mankind

ANOTHER LEADER IN COMMERCIAL FERTILIZERS...

DIXIE GUANO Company

chooses

LURIA Standardized Buildings



Only LURIA provides the SPEED and ECONOMY of STANDARDIZATION... plus all the ADAPTABILITY and DURABILITY of CUSTOM-DESIGNED UNITS

Luria structural steel buildings live up to their promise of high-speed construction coupled with low cost . . . of standardized design adaptable to almost any type of architectural treatment that best suits your *individual* needs . . . of structures of hot-rolled steel components that surpass the most stringent building code requirements. This is proven by



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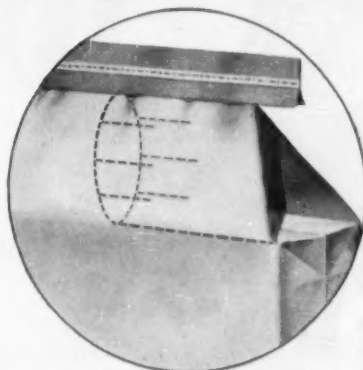
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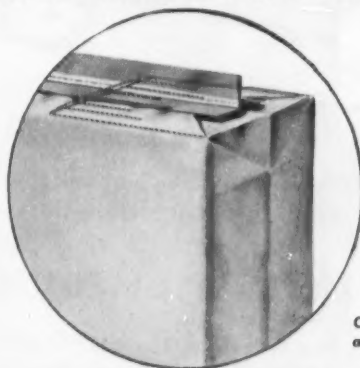
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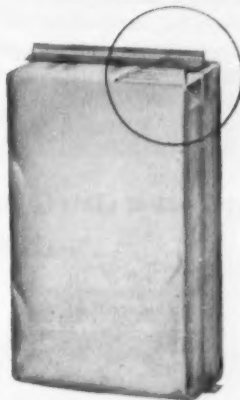


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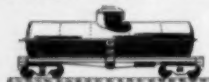
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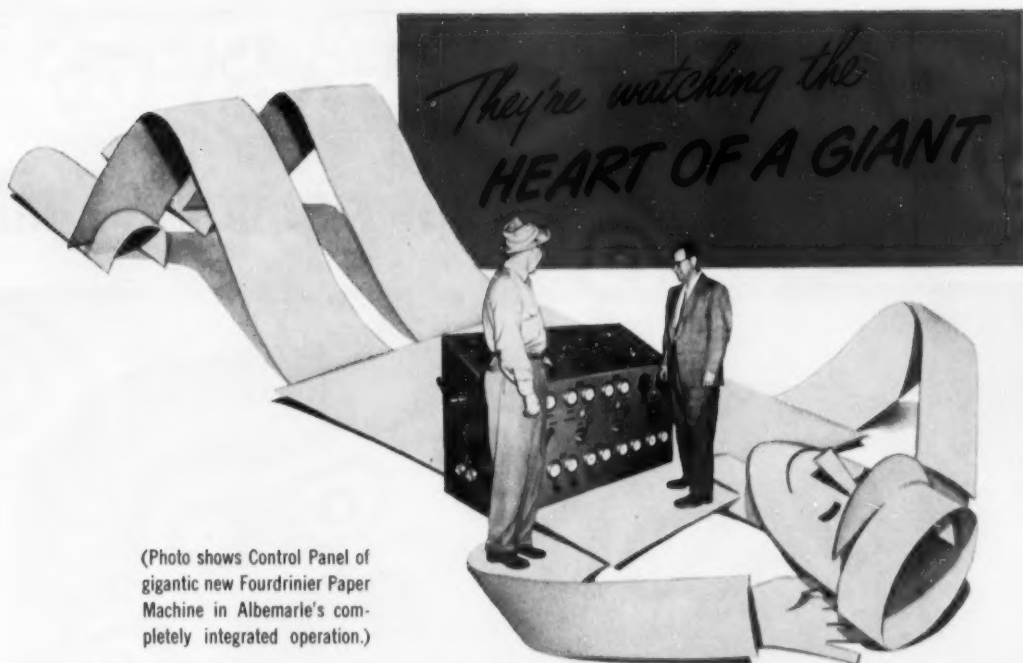
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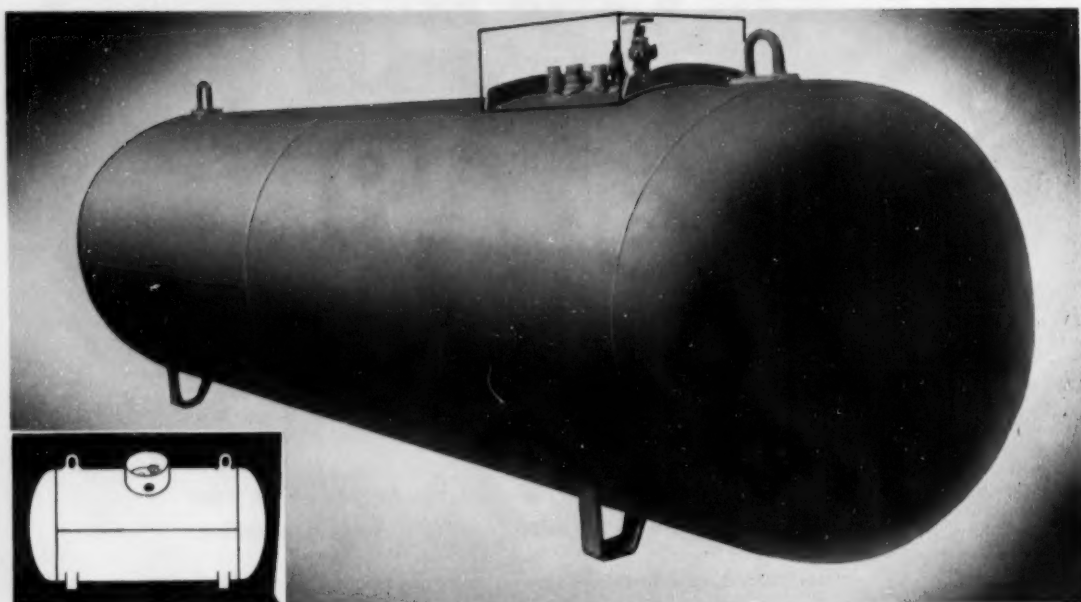
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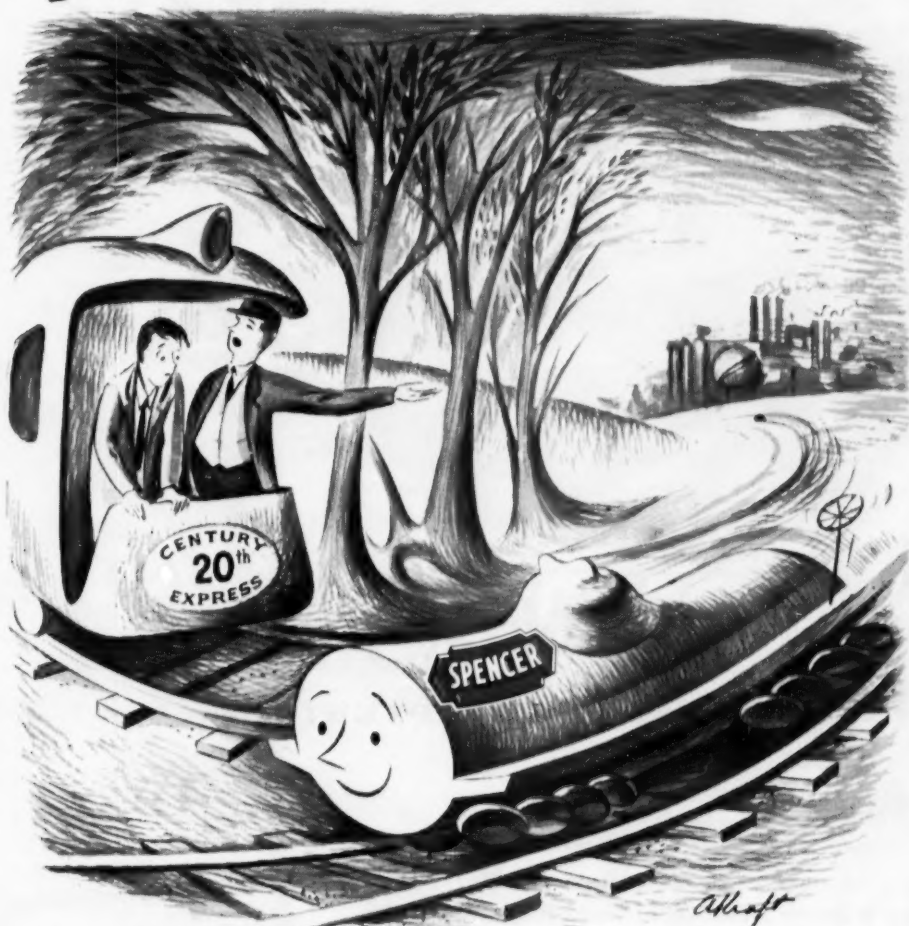


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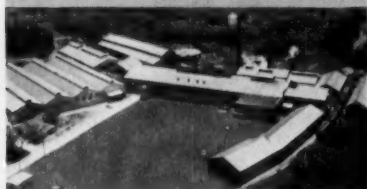
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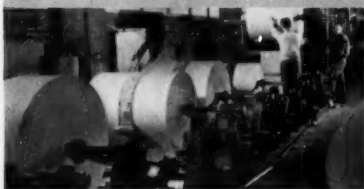
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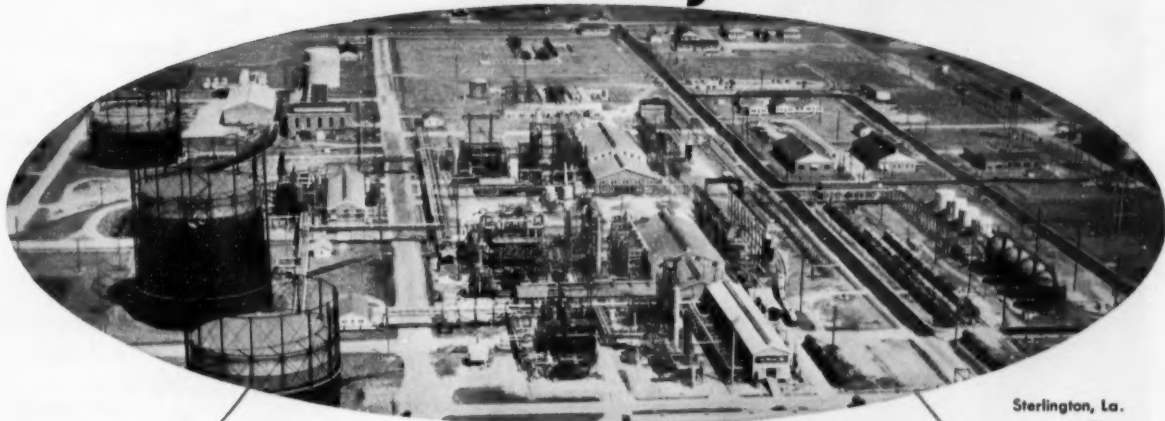
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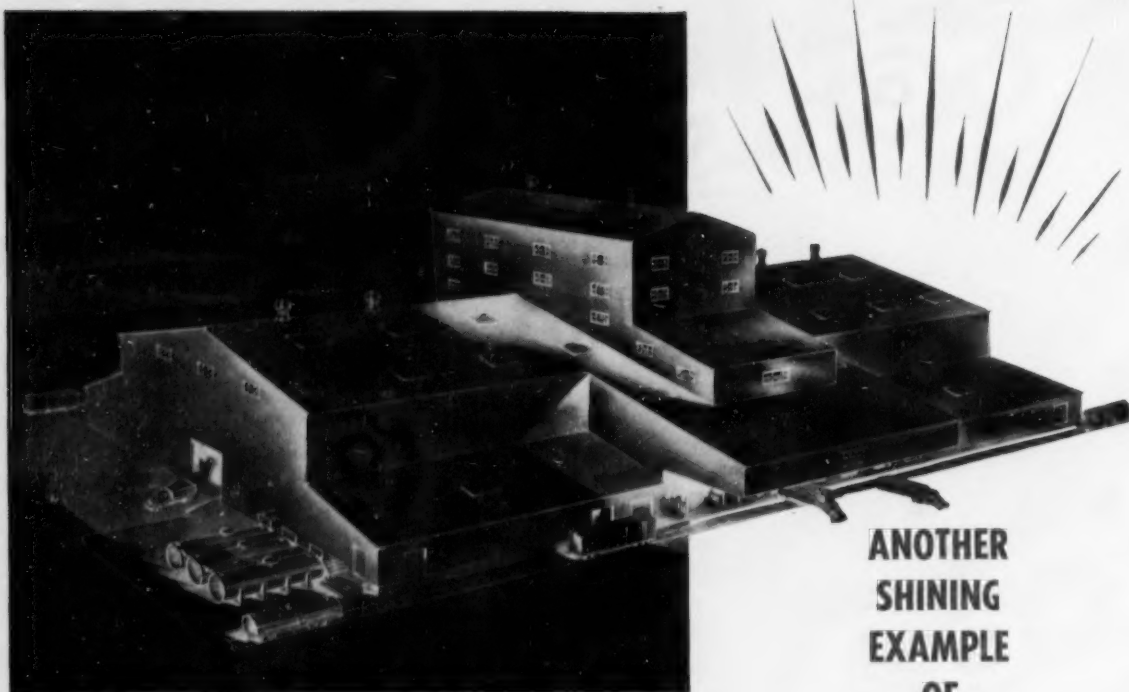
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THE FERTILIZER SITUATION FOR 1954 - 1955

by J. N. LOWE

Commodity Stabilization Service

United States Department of Agriculture

Washington, D. C.

September 1954

PREFACE

The Fertilizer Situation for 1954-55 is the twelfth in a series of reports on fertilizers issued by agencies within the U. S. Department of Agriculture.

This report has been prepared by J. N. Lowe, fertilizer staff specialist, Food and Materials Requirements Division of the Commodity Stabilization Service.

In the preparation of the report helpful assistance was given by the Bureau of the Census, Department of Commerce; Bureau of Mines, Department of the Interior; Chemical and Rubber Division, Business and

Defense Services Administration; and the Fertilizer and Agricultural Lime Section, Soil and Water Conservation Research Branch, Agricultural Research Service, U. S. Department of Agriculture. This assistance is gratefully acknowledged.

The preliminary forecast of the 1954-55 fertilizer supply is again being combined with the usual mid-summer tabulation, showing reported deliveries of the three primary plant nutrients during the previous fertilizer year.

It is intended that a supplemental report, reflecting any changes or developments, will be issued in the spring of 1955.

The 1954-55 Fertilizer Outlook

In the aggregate, the available supply of the three primary plant nutrients—nitrogen (N), phosphoric oxide (P_2O_5), and Potash (K_2O)—has reached a new high each year since 1938-39. During the first half of the year ended June 30, 1954, fertilizer movement within the trade was exceedingly slow. However, the year's total deliveries of plant nutrients to the trade in 1953-54 was 6.215 million tons compared with 5.957 million tons delivered the previous year. The increased supply in 1953-54 was absorbed by consuming channels with less apparent carryover than that for the previous year.

Prices during 1953-54 were irregular, averaging slightly below those prevailing during the previous year. Prices in 1954-55 are expected to be about the same as the 1953-54 levels or slightly below.

On the basis of information regarding domestic production and as-

suming an import-export balance at the 1953-54 level, it is estimated that the aggregate 1954-55 supply of the three primary plant nutrients will exceed the 1953-54 supply by about 5 percent.

Nitrogen (N):

It is currently estimated that the 1954-55 supply of nitrogen (N) available for fertilizer purposes will be approximately 2.2 million tons. This is a preliminary estimate based on current rate of production, plant capacity, storage facilities, and assuming an import-export balance at about the 1953-54 level. The estimated 2.2 million tons for 1954-55 would represent an increase of about 8.9 percent over the 2.02 million tons reported for 1953-54.

Details of the 1953-54 deliveries and the estimated 1954-55 supply of nitrogen by type and class are shown in tables I and IA.

The completion of three new urea production facilities with a combined annual capacity of about 260,000 tons of 45 percent material will tend to stabilize the proportion of solid to wet nitrogenous materials available in 1954-55. Based on trade deliveries, it is estimated that the supply of solid nitrogen materials (dry nitrogen) available for 1954-55 will comprise approximately 55 percent, and solution and liquid materials (wet nitrogen) about 45 percent of the total supply as compared with 57 percent and 43 percent, respectively, for the previous year.

Phosphates (P_2O_5):

The 1954-55 supply of available phosphoric oxide (P_2O_5) is forecast at 2.35 million tons, or about the 1953-54 level. This estimate is based on present production, trends in consumption in recent years, and an assumption that import-export relationships will be about the same as in 1953-54. The industry has the capacity to produce a considerably larger tonnage in 1954-55 if demand warrants.

Details of the 1953-54 deliveries and the estimated 1954-55 supply of available phosphoric oxide (P_2O_5) by type and class of material are shown in tables 2 and 2A.

The 1953-54 deliveries of available phosphoric oxide (P_2O_5) was approximately 2.364 million tons, or 4 percent above the 1952-53 reported consumption of 2.271 million tons.

Potash (K_2O):

The 1954-55 supply of potash available for fertilizer in terms of potassium oxide (K_2O) is estimated at 1.97 million tons. This represents an increase of approximately 7.6 percent over the 1.831 million tons available in 1953-54. This forecast reflects the present rate of production, trends in use, and the probable demands in 1954-55 rather than the capacity of the industry to produce. Details of the 1953-54 deliveries and the 1954-55 forecast supply are shown in tables 3 and 3A.

Table 1.—1953-54 Fertilizer NITROGEN SUPPLY
Trade Delivery Basis¹
(In tons of 2,000 pounds nitrogen content)

| Source | Ammonium Nitrate All Grades | Ammonium Sulfate & Ammonium Sulfate Nitrate ² | Other Solids ³ | Natural Organics ⁴ | Compound Ammoniating Solutions AN-NH ₃ & UAL ⁵ | Ammonia for Ammoniation ⁶ | Ammonia for Direct Application | Nitrogen Solutions for Direct Application ⁷ | Total by Source |
|--------------------------------|-----------------------------|--|---------------------------|-------------------------------|--|--------------------------------------|--------------------------------|--|------------------|
| U. S. Production | | | | | | | | | |
| Synthetic ammonia | 339,000 | 135,000 | 87,000 | | 391,000 | 105,000 | 333,000 | 51,000 | 1,441,000 |
| By-product ammonia | | 182,000 | | | | 3,000 | | | 185,000 |
| Natural organics | | | | 35,000 | | | | | 35,000 |
| Total | 339,000 | 317,000 | 87,000 | 35,000 | 391,000 | 108,000 | 333,000 | 51,000 | 1,661,000 |
| Exports | 1,000 | 19,000 | 21,000 | 1,000 | 19,000 | 1,000 | | | 62,000 |
| Net Domestic Production | 338,000 | 298,000 | 66,000 | 34,000 | 372,000 | 107,000 | 333,000 | 51,000 | 1,599,000 |
| Imports | 139,000 | 107,000 | 171,000 | 4,000 | | | | | 421,000 |
| Total Supply— | | | | | | | | | |
| U. S. & Possessions | 477,000 | 405,000 | 237,000 | 38,000 | 372,000 | 107,000 | 333,000 | 51,000 | 2,020,00 |

¹ Based upon special reports from primary producers of synthetic ammonia, importers and other sources; data for by-product compounds based upon Bureau of Mines' Monthly Coke Report. Correlation with Bureau of Census' Facts for Industry and Import and Export Tabulations in process and some adjustments may be made when all data are appraised; as a result of available tests, it is believed that data presented represent reasonably correct proximates (proximity estimates). To avoid disclosure of individual company operations certain designated materials have been combined.

² Includes estimated ammonium sulfate content of imported and exported mixed fertilizers.

³ Includes estimated ammonium phosphates, sodium nitrate, urea mixtures, calcium nitrate and cyanamid.

⁴ Estimated nitrogen content of natural organics used in commercial fertilizer.

⁵ Includes estimated nitrogen content derived from solutions and ammonia in exported ammoniated superphosphates and mixed fertilizers.

⁶ Includes small quantities of ammonia solutions and ammonia liquor.

⁷ Includes compound nitrogen solutions, ammonium nitrate solutions and aqua ammonia used for this purpose.

Table 1A.—ESTIMATED 1954-55 FERTILIZER NITROGEN SUPPLY
(In tons of 2,000 pounds nitrogen (N))

| Source | Ammonium Nitrate All Grades | Ammonium Sulfate & Ammonium Sulfate Nitrate ¹ | Other Solids ² | Natural Organics ³ | Compound Ammoniating Solutions AN-NH ₃ & UAL ⁴ | Ammonia for Ammoniation ⁵ | Ammonia for Direct Application | Nitrogen Solutions for Direct Application ⁶ | Total by Source |
|--------------------------------|-----------------------------|--|---------------------------|-------------------------------|--|--------------------------------------|--------------------------------|--|------------------|
| U. S. Production | | | | | | | | | |
| Synthetic ammonia ⁷ | 360,000 | 133,000 | 130,000 | | 410,000 | 120,000 | 395,000 | 75,000 | 1,623,000 |
| By-product ammonia | | 180,000 | | | | 3,000 | | | 183,000 |
| Natural organics | | | | 35,000 | | | | | 35,000 |
| Total | 360,000 | 313,000 | 130,000 | 35,000 | 410,000 | 123,000 | 395,000 | 75,000 | 1,841,000 |
| Exports | 1,000 | 19,000 | 21,000 | 1,000 | 19,000 | 1,000 | | | 62,000 |
| Net Domestic Production | 359,000 | 294,000 | 109,000 | 34,000 | 391,000 | 122,000 | 395,000 | 75,000 | 1,779,000 |
| Imports | 139,000 | 107,000 | 171,000 | 4,000 | | | | | 421,000 |
| Total Supply— | | | | | | | | | |
| U. S. & Possessions | 498,000 | 401,000 | 280,000 | 38,000 | 391,000 | 122,000 | 395,000 | 75,000 | 2,200,000 |

For the purpose of this tabulation, the following groupings have been made:

¹ Includes estimated ammonium sulfate content of imported and exported mixed fertilizers.

² Includes estimated ammonium phosphates, sodium nitrate, urea mixtures, calcium nitrate, cyanamid and nitraphosphates.

³ Estimated nitrogen content of natural organics used in commercial fertilizer.

⁴ Includes estimated nitrogen content derived from solutions and ammonia in exported ammoniated superphosphates and mixed fertilizers.

⁵ Includes small quantities of ammonia solutions and ammonia liquor.

⁶ Includes compound nitrogen solutions, ammonium nitrate solutions and aqua ammonia used for this purpose.

⁷ U. S. production synthetic ammonia based on prospective production pattern rather than capacity of the industry to produce.

NITROGEN

| | Capacity T/N/Yr. |
|---|------------------|
| Total capacity 18 original plants as amended Feb. 15, 1954 | 1,448,000 |
| 1951 expansion | 109,800 |
| 1952 expansion | 227,000 |
| 1953 January to June expansion | 8,900 |
| 1953-54 expansion | 705,900 |
| 1954-55 scheduled completions | 267,800 |
| Under construction scheduled for completion July-Dec. 1955 | 92,000 |
| Total expansion 1951 through 1955 | 1,411,400 |
| Grand total capacity in place and under construction July 1, 1954 | 2,859,400 |
| Covered by outstanding Certificates of Necessity, not under construction July 1, 1954 | 378,400 |
| Available from byproducts and natural organic sources | 265,000 |
| Proposed total domestic capacity January 1, 1957 | 3,502,800 |

General

Fertilizer Plant Expansion Program:

In 1951, the U. S. Department of Agriculture inaugurated the program to expand fertilizer production facilities under the provisions of the Defense Production Act of 1950, as amended.

The Department, in cooperation with the Land Grant Colleges and universities developed agriculture's 1954-55 estimated requirements for the three major plant nutrients: Nitrogen (N), 2,185,000 tons; phosphoric oxide (P_2O_5), 3,485,000 tons; and potash (K_2O), 2,185,000 tons. These requirements were taken into consideration by the Office of Defense Mobilization (formerly DPA) in the establishment of expansion goals.

At the request of Business and Defense Services Administration (formerly NPA), the Department in August 1953 projected agriculture's nitrogen requirements for 1956-57 to be 2,435,000 tons. The regional breakdown of the 1956-57 requirements with comparative 1952-53 consumption is shown in figure 1.

Status of Nitrogen Expansion:

The total expansion goal for domestic production of nitrogen for agricultural, industrial and other purposes was originally set at 2,930,000 tons for 1955. The Office of Defense Mobilization (ODM) amended this goal on February 5, 1954, by increasing the domestic production goal to 3,500,000 tons by January 1, 1957.

The capacity of the 18 synthetic ammonia plants in production on January 1, 1951, was determined to be 1,400,000 tons of contained nitrogen. Two plants constructed in 1950 and 1951 and the Morgantown ordinance works reactivated in 1952 were considered as a part of the expansion program; and are included in the 1951 and 1952 expansion as shown in the summary.

Summary

See Table



If the nitrogen expansion goal of 3.5 million tons of domestic productive capacity is to be attained, plant

September, 1954

Table 2.—PHOSPHATE: 1953-54 Supply for Fertilizer Purposes
United States and Possessions (Trade delivery basis)
(In tons of 2,000 pounds available phosphoric oxide (P_2O_5))

| Source | Normal Superphosphate | Concentrated Superphosphate | Other ¹ | Total by Source |
|------------------------------------|------------------------|-----------------------------|---------------------|-----------------|
| U. S. Production | 1,663,000 ² | 491,000 | 239,000 | 2,393,000 |
| Exports | 56,000 | 16,000 | 16,000 ³ | 88,000 |
| Net supply, U. S. production | 1,607,000 | 475,000 | 223,000 | 2,302,000 |
| Imports | | 2,000 | 60,000 | 62,000 |
| Total Supply—U. S. and Possessions | 1,607,000 | 477,000 | 283,000 | 2,364,000 |

¹ Includes estimates for complex phosphatic materials.

² Includes wet-base goods and enriched.

³ Includes P_2O_5 content of prepared phosphatic mixtures, ammonium phosphates and ammoniated superphosphates.

September, 1954

Table 2A.—PHOSPHATE: Estimated 1954-55 Supply for Fertilizer Purposes
United States and Possessions
(In tons of 2,000 pounds available phosphoric oxide (P_2O_5))

| Source | Normal Superphosphate | Concentrated Superphosphate | Other ¹ | Total by Source |
|-------------------------------------|------------------------|-----------------------------|---------------------|-----------------|
| U. S. Production ⁴ | 1,590,000 ² | 526,000 | 260,000 | 2,376,000 |
| Exports | 56,000 | 16,000 | 16,000 ³ | 88,000 |
| Net supply, U. S. production | 1,534,000 | 510,000 | 244,000 | 2,288,000 |
| Imports | | 2,000 | 60,000 ³ | 62,000 |
| Total supply, U. S. and possessions | 1,534,000 | 512,000 | 304,000 | 2,350,000 |

¹ Includes estimates for complex phosphatic materials.

² Includes wet-base goods and enriched.

³ Includes P_2O_5 content of prepared phosphatic mixtures, ammonium phosphates and ammoniated superphosphates.

⁴ U. S. production is based on consumption trends and prospective demand rather than capacity of the industry to produce.

September, 1954

Table 3.—POTASH: 1953-54 Supply for Fertilizer Purposes
United States and Possessions. (Trade delivery basis)
(In tons of 2,000 pounds potassium oxide (K_2O) content)

| Source | Muriate of potash 60% and 50% grade | Sulfate of potash & sulfate of potash magnesia | Manure Salts | Misc. & by-product materials ¹ | Total by Source |
|------------------------------------|-------------------------------------|--|--------------|---|-----------------|
| Deliveries from U. S. production | 1,629,000 | 100,000 | 1,000 | 34,000 | 1,764,000 |
| Exports | 44,000 | 6,000 | | 4,000 | 54,000 |
| Net Supply—U. S. production | 1,585,000 | 94,000 | 1,000 | 30,000 | 1,710,000 |
| Imports | 90,000 | 25,000 | | 6,000 | 121,000 |
| Total Supply—U. S. and Possessions | 1,675,000 | 119,000 | 1,000 | 36,000 | 1,831,000 |

¹ Includes potash content of oilseed meal and by-product residues used for fertilizer, potassium nitrate and calculated potash content of mixed fertilizers, exported and imported.

September, 1954

Table 3A.—POTASH: Estimated 1954-55 Supply for Fertilizer Purposes
United States and Possessions
(In tons of 2,000 pounds potassium oxide (K_2O) content)

| Source | Muriate of potash 60% and 50% grade | Sulfate of potash & sulfate of potash magnesia | Manure Salts | Misc. & by-product materials ¹ | Total by Source |
|--|-------------------------------------|--|--------------|---|-----------------|
| Deliveries from U. S. production | 1,755,000 | 110,000 | 3,000 | 35,000 | 1,903,000 |
| Exports | 44,000 | 6,000 | | 4,000 | 54,000 |
| Net supply—U. S. production ² | 1,711,000 | 104,000 | 3,000 | 31,000 | 1,849,000 |
| Imports | 90,000 | 25,000 | | 6,000 | 121,000 |
| Total Supply—U. S. and Possessions | 1,801,000 | 129,000 | 3,000 | 37,000 | 1,970,000 |

¹ Includes potash content of oilseed meal and by-product residues used for fertilizer, potassium nitrate and calculated potash content of mixed fertilizers, exported and imported.

² Net supply from U. S. production is based on prospective demand rather than capacity of the industry to deliver from domestic production. The above-ground supply may be in excess of the figures shown.

Table 4.—Cash Receipts from Farm Marketings, Government Payments and Estimated Expenditures for Fertilizers, 1952-53 (1,000 dollars)

| Livestock and products | Grand Total | Est. expenditures for fertilizer | % fert. exp. of total crop & Gov. | % fert. exp. grand total farm receipts | Regions | Crops | Government payments | Total |
|------------------------|-------------|----------------------------------|-----------------------------------|--|------------|-----------|---------------------|-------|
| New England | 236,579 | 3,792 | 240,371 | 537,858 | 778,229 | 22,000 | 9.15 | 2.83 |
| Middle Atlantic | 735,890 | 14,184 | 750,074 | 1,872,758 | 2,622,832 | 101,000 | 13.47 | 3.85 |
| South Atlantic | 1,967,880 | 23,661 | 1,991,541 | 958,161 | 2,949,702 | 293,000 | 14.71 | 9.93 |
| East North Central | 1,967,587 | 33,036 | 2,000,623 | 3,992,243 | 5,992,866 | 247,000 | 12.35 | 4.12 |
| West North Central | 2,682,095 | 60,452 | 2,742,547 | 5,231,708 | 7,974,255 | 101,000 | 3.68 | 1.27 |
| East South Central | 1,198,165 | 23,891 | 1,222,056 | 842,122 | 2,064,178 | 157,000 | 12.85 | 7.61 |
| West South Central | 2,019,208 | 35,715 | 2,054,923 | 1,616,135 | 3,671,058 | 67,000 | 3.26 | 1.83 |
| Mountain | 1,042,421 | 25,681 | 1,068,102 | 1,229,243 | 2,297,345 | 22,000 | 2.06 | .96 |
| Pacific | 2,184,043 | 17,135 | 2,201,178 | 1,372,307 | 3,573,485 | 112,000 | 5.09 | 3.13 |
| U. S. TOTAL | 14,033,868 | 237,547 | 14,271,415 | 17,652,535 | 31,923,950 | 1,122,000 | 7.86 | 3.51 |

Source: Based on agricultural marketing service data.

Table 5.—Relation of expenditures for fertilizers to total agricultural production expenses of farm operators and to farm income in the previous year, United States, 1911-1953

| Calendar year | Total production expenses ¹ | Cash income from crops and Government payments ² | | Expenditures for fertilizers | |
|-------------------|--|---|-----------------|------------------------------|------------------------|
| | Million dollars | Million dollars | Amount | Production expenses | Previous year's income |
| | | | Million dollars | Percent | Percent |
| 1911 | 3,646 | 2,925 | 159 | 4.4 | 5.4 |
| 1912 | 3,890 | 3,111 | 153 | 3.9 | 5.2 |
| 1913 | 4,035 | 3,095 | 172 | 4.3 | 5.5 |
| 1914 | 4,120 | 2,920 | 197 | 4.8 | 6.4 |
| 1915 | 4,223 | 3,280 | 159 | 3.8 | 5.4 |
| 1916 | 4,845 | 4,043 | 165 | 3.4 | 5.0 |
| 1917 | 6,136 | 5,660 | 218 | 3.6 | 5.4 |
| 1918 | 7,558 | 6,985 | 297 | 3.9 | 5.2 |
| 1919 | 8,461 | 7,674 | 326 | 3.9 | 4.7 |
| 1920 | 9,130 | 6,654 | 359 | 3.9 | 4.7 |
| 1921 | 6,875 | 4,199 | 203 | 3.0 | 3.1 |
| 1922 | 6,826 | 4,321 | 193 | 2.8 | 4.6 |
| 1923 | 7,125 | 4,885 | 200 | 2.8 | 4.6 |
| 1924 | 7,495 | 5,415 | 210 | 2.8 | 4.3 |
| 1925 | 7,464 | 5,526 | 229 | 3.1 | 4.2 |
| 1926 | 7,505 | 4,889 | 227 | 3.0 | 4.1 |
| 1927 | 7,545 | 5,157 | 205 | 2.7 | 4.2 |
| 1928 | 7,855 | 5,044 | 267 | 3.4 | 5.2 |
| 1929 | 7,780 | 5,125 | 268 | 3.4 | 5.3 |
| 1930 | 7,059 | 3,840 | 264 | 3.7 | 5.2 |
| 1931 | 5,634 | 2,536 | 184 | 3.3 | 4.8 |
| 1932 | 4,574 | 1,997 | 113 | 2.5 | 4.5 |
| 1933 | 4,374 | 2,604 | 118 | 2.7 | 5.9 |
| 1934 | 4,727 | 3,450 | 141 | 3.0 | 5.4 |
| 1935 | 5,111 | 3,551 | 160 | 3.1 | 4.6 |
| 1936 | 5,581 | 3,938 | 160 | 2.9 | 4.5 |
| 1937 | 6,126 | 4,315 | 208 | 3.4 | 5.3 |
| 1938 | 5,744 | 3,672 | 182 | 3.2 | 4.2 |
| 1939 | 6,088 | 4,173 | 218 | 3.6 | 5.9 |
| 1940 | 6,484 | 4,237 | 223 | 3.4 | 5.3 |
| 1941 | 7,469 | 5,302 | 250 | 3.3 | 5.9 |
| 1942 | 9,465 | 7,028 | 301 | 3.2 | 5.7 |
| 1943 | 10,882 | 8,652 | 373 | 3.4 | 5.3 |
| 1944 | 11,640 | 9,842 | 400 | 3.4 | 4.6 |
| 1945 | 12,629 | 10,307 | 440 | 3.5 | 4.5 |
| 1946 | 14,238 | 11,937 | 521 | 3.7 | 5.1 |
| 1947 | 16,849 | 13,910 | 581 | 3.4 | 4.9 |
| 1948 | 18,545 | 13,725 | 655 | 3.5 | 4.7 |
| 1949 | 18,038 | 12,922 | 698 | 3.9 | 5.1 |
| 1950 | 20,024 | 12,858 | 744 | 3.7 | 5.8 |
| 1951 | 22,000 | 13,473 | 951 | 4.3 | 7.4 |
| 1952 | 23,027 | 14,294 | 1,052 | 4.6 | 7.8 |
| 1953 ³ | 22,218 | 14,010 | 1,110 | 5.0 | 7.8 |

¹ Includes livestock industry.

² Excludes livestock industry.

³ Preliminary.

U. S. Department of Agriculture

capacity equivalent to the outstanding Certificates of Necessity (378,400 T/N/Yr.) must not only be started but completed before January 1, 1957.

Assuming that the expansion goal is met and the import-export balance remains at about current levels, the nitrogen supply based on present trends in consumption should be ample to satisfy agricultural and other domestic needs through 1958.

Status of Phosphate Expansion:

The phosphate plant production capacity, P_2O_5 equivalent, at the time the expansion goal was established in 1952 was determined to be 2.25 million tons. In making this determination full consideration was not given to the possibility of operation on a 2-or 3-shift basis. The base capacity figure more nearly represents production from plants in operation in 1951 than it does capacity to produce if conditions warranted 2- or 3-shift operations.

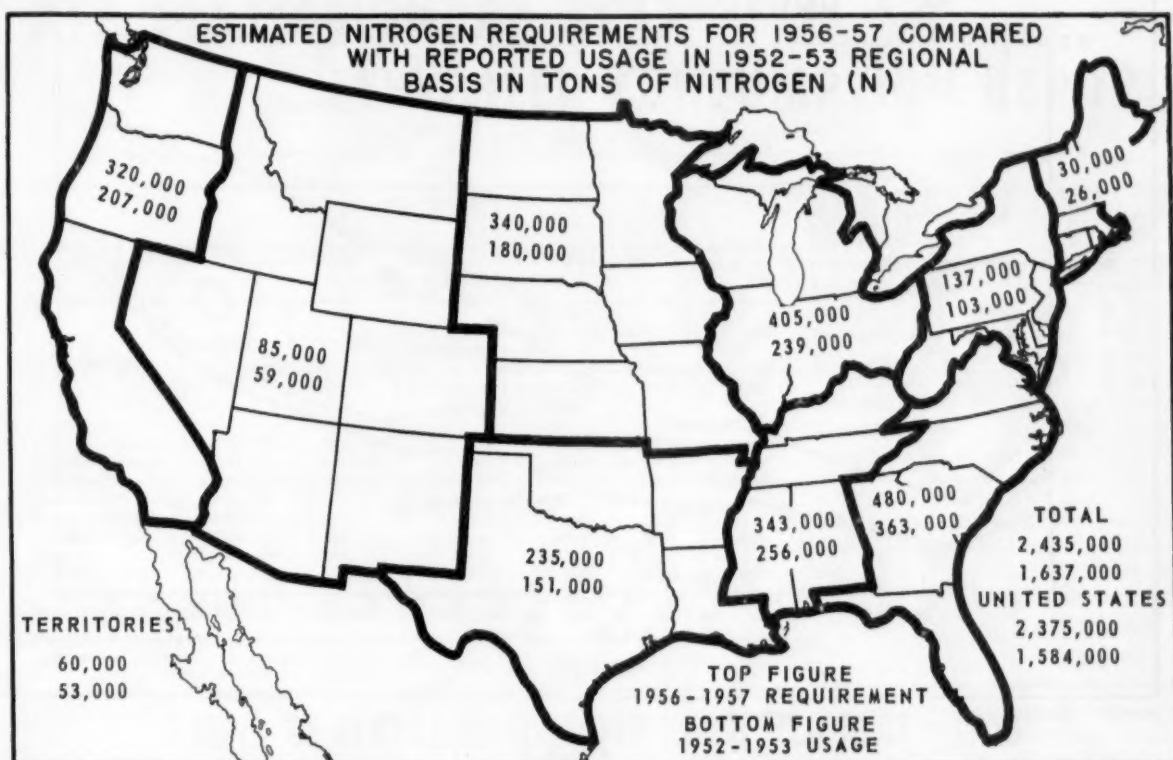
The phosphate expansion goal provided for an increase in capacity of 1.3 million tons of P_2O_5 equivalent over the 1951 production level.

The goal was not fully subscribed before it was closed in 1954.

Summary

See Table

Only a small part of the 253,700 tons, P_2O_5 equivalent, of capacity listed as not under construction July 1, 1954, is expected to be constructed under the expansion program. In other words, the expansion under the 1,300,000-ton goal is not expected to greatly exceed the 893,-



U. S. DEPARTMENT OF AGRICULTURE

Figure 1

CSS-FMRD FERTILIZER STAFF 8/12/54

600 tons in place and under construction July 1, 1954.

Based on present trends in consumption, this expansion in produc-

tion facilities plus those in operation in 1951 should be ample to satisfy the foreseeable domestic and export needs during the next few years. In

other words the available supply, in the near future, will not be limited by inadequate production facilities.

Status of Potash Expansion:

The capacity of the domestic potash industry in 1951 was reported to be 1.4 million tons of K_2O equivalent. The production goal, as established by ODM, was 2 million tons K_2O by July 1, 1954. This represents an expansion of 600,000 tons over the January 1, 1951, production capacity.

Summary

The production goal was met ahead of schedule without tax amortization assistance.

During 1953-54 the industry has installed additional improvements and the present capacity to produce in terms of potassium oxide (K_2O) is in excess of 2 million tons.

Prospecting during the last year has added considerably to the known deposits of potash ores.

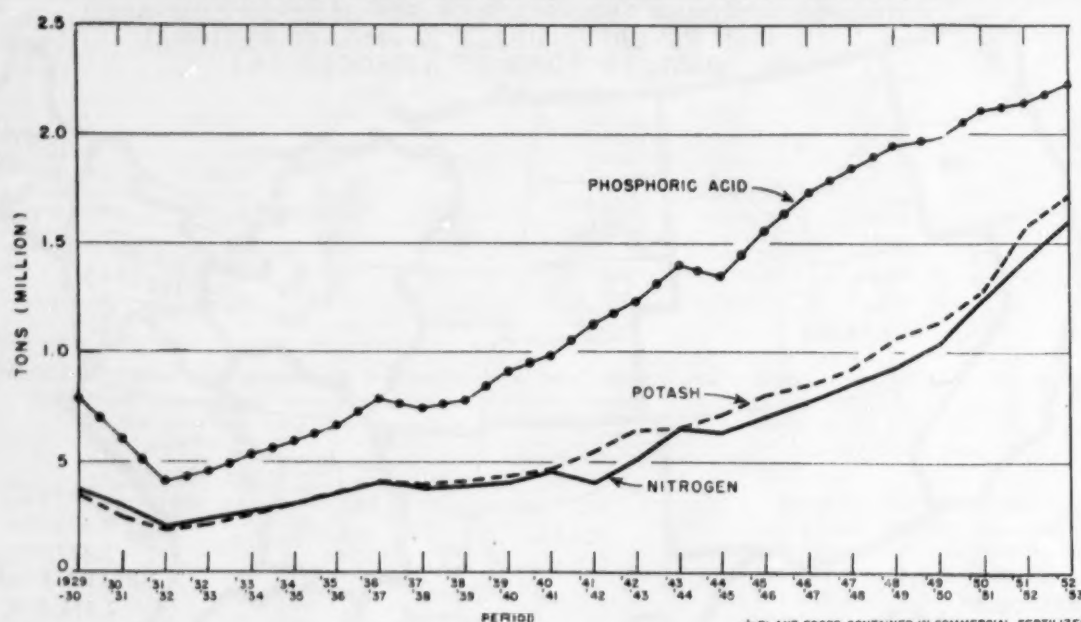
POTASH

| | Capacity T/ K_2O /Yr. |
|---|----------------------------|
| 1951 Base production capacity | 1,400,000 |
| Expansion January 1, 1952 to June 30, 1953 (est.) | 600,000 |
| Approximate total capacity June 30, 1953 | 2,000,000 |

PHOSPHATE

| | Capacity T/ P_2O_5 /Yr. |
|---|------------------------------|
| 1951 base production (capacity) | 2,250,000 |
| 1952-1955 expansion goal | 1,300,000 |
| 1954-55 production goal | 3,550,000 |
| Total capacity subscribed under the goal | 1,147,300 |
| Normal superphosphate | 166,600 |
| Triple superphosphate | 574,100 |
| Ammonium phosphate | 105,900 |
| Nitrophosphates | 161,900 |
| Other forms | 138,800 |
| Total capacity completed under the goal as of July 1, 1954 | 813,500 |
| Normal superphosphate | 162,700 |
| Triple superphosphate | 507,800 |
| All other | 143,000 |
| Total capacity under construction July 1, 1954 | 80,100 |
| Total expansion in place and under construction July 1, 1954 | 893,600 |
| Total capacity of plants considered a part of the expansion program and not under construction July 1, 1954 | 253,700 |

U. S. CONSUMPTION OF PLANT FOODS*



* PLANT FOODS CONTAINED IN COMMERCIAL FERTILIZER
ADAPTED FROM DATA COMPILED BY SOIL AND WATER
CONSERVATION RESEARCH BRANCH.

COMMODITY STABILIZATION SERVICE - U.S. DEPARTMENT OF AGRICULTURE.

Figure 2

LOCATION OF FERTILIZER MIXING PLANTS - 1952



Prepared by The National Fertilizer Association

Three states, New Hampshire, Wyoming and Nevada were the only states in the United States without at least one fertilizer mixing plant as of June 30, 1952. Georgia with 151 has the

greatest number of mixing facilities but North Carolina's 74 mixing plants has the highest rated annual capacity—3,647,000 tons.

NFA 1953 CALENDAR YEAR FERTILIZER CONSUMPTION REPORT

by JOHN F. GALE

1953 FERTILIZER CONSUMPTION UP 0.8 PERCENT OVER 1952

(In Short Tons)

| REGION | TONS CONSUMED 1953 | TONS CONSUMED 1952 | TONS INCREASE OR DECREASE | PERCENT INCREASE OR DECREASE 1953 OVER 1952 | PERCENT OF TOTAL 1953 | PERCENT OF TOTAL 1952 |
|-----------------------|--------------------|--------------------|---------------------------|---|-----------------------|-----------------------|
| New England... | 469,153 | 474,788 | -5,635 | -1.2 | 2.3 | 2.4 |
| Middle Atlantic... | 1,497,597 | 1,514,182 | -16,585 | -1.1 | 7.4 | 7.5 |
| East North Central... | 4,140,033 | 3,914,399 | +225,634 | +5.8 | 20.4 | 19.5 |
| West North Central... | 1,821,687 | 1,570,818 | +250,869 | +16.0 | 9.0 | 7.8 |
| South Atlantic... | 6,712,946 | 6,838,414 | -125,468 | -1.8 | 33.2 | 34.1 |
| South Central... | 4,209,744 | 4,483,104 | -273,360 | -6.1 | 20.8 | 22.3 |
| Western... | 1,385,563 | 1,280,817 | +104,746 | +8.2 | 6.9 | 6.4 |
| TOTAL | 20,236,723 | 20,076,522 | +160,201 | +0.8 | 100.0 | 100.0 |

Prepared by: THE NATIONAL FERTILIZER ASSOCIATION

FOR the fifteenth consecutive year, U. S. fertilizer consumption has hit a record high—but just barely. However, reliable preliminary estimates place $N-P_2O_5-K_2O$ consumption in 1953 substantially above use of these plant nutrients in the previous year.

Increased fertilizer use in Midwestern and far western states, almost but not quite offset by decreases in all other regions, pushed domestic 1953 consumption to an estimated 20,236,723 short tons. This is 160,000 tons more than the 20,077,000 tons reported used during 1952. Percentagewise, this increase—8/10's of one percent—is the smallest since 1939.

FIGURE 1

TONS OF FERTILIZER USED PER HARVESTED ACRE — 1953 (60 IMPORTANT CROPS)

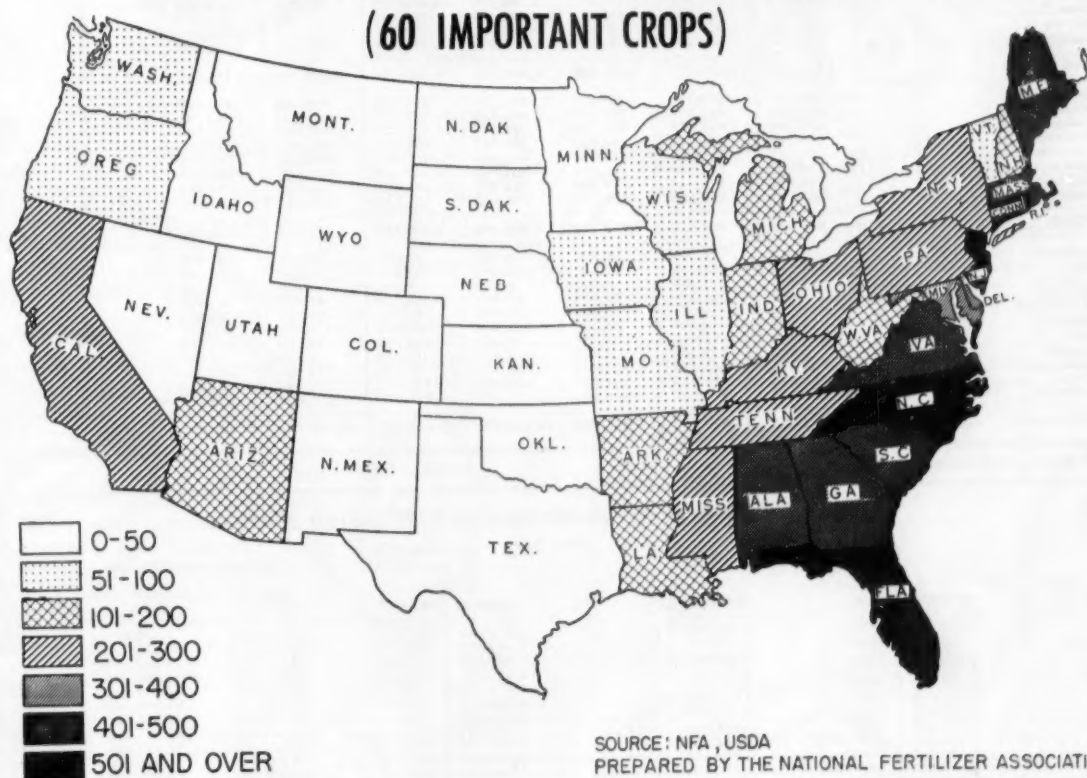


TABLE 2
FERTILIZER CONSUMPTION IN THE UNITED STATES
(Short Tons)

| STATE | TOTAL CONSUMPTION | | | | | 1953 | | | |
|---------------------------------|-------------------|------------|------------|------------|-------------------------|-------------------|------------------|--------------------------|---------------------------|
| | 1943 | 1949 | 1950 | 1951 | 1952 | TOTAL CONSUMPTION | COMMERCIAL SALES | GOVERNMENT DISTRIBUTION | |
| | | | | | | | | ACP Program ¹ | TVA Demonstration Program |
| NEW ENGLAND | 454,647 | 512,429 | 474,486 | 459,007 | 474,788 | 469,153 | 429,384 | 39,769 | 0 |
| Maine..... | 217,145 | 228,156 | 200,069 | 172,219 | 216,917 | 211,287 | 203,279 | 8,008 | 0 |
| New Hampshire..... | 28,240 | 26,223 | 27,879 | 23,280 | 16,589 | 20,291 | 20,291 | 0 | 0 |
| Vermont..... | 30,897 | 56,932 | 50,722 | 66,164 | 46,186 | 50,582 | 23,270 | 27,312 | 0 |
| Massachusetts..... | 87,301 | 87,483 | 88,334 | 86,620 | 95,448 | 85,454 | 84,717 | 737 | 0 |
| Rhode Island..... | 15,288 | 21,126 | 16,402 | 17,419 | 16,309 | 14,299 | 14,299 | 0 | 0 |
| Connecticut..... | 73,776 | 92,509 | 91,080 | 93,305 | 83,339 | 87,240 | 83,528 | 3,712 | 0 |
| MIDDLE ATLANTIC | 1,140,081 | 1,440,602 | 1,445,203 | 1,486,299 | 1,514,182 | 1,497,597 | 1,497,597 | 0 | 0 |
| New York..... | 502,787 | 575,000 | 609,500 | 625,000 | 631,250 | 640,000 | 640,000 | 0 | 0 |
| New Jersey..... | 223,130 | 259,631 | 249,347 | 246,710 | 270,505 | 252,904 | 252,904 | 0 | 0 |
| Pennsylvania..... | 414,164 | 605,971 | 586,356 | 614,589 | 612,427 | 604,693 | 604,693 | 0 | 0 |
| EAST NORTH CENTRAL | 1,477,673 | 2,800,409 | 3,212,358 | 3,388,970 | 3,914,399 ¹ | 4,140,033 | 4,129,804 | 9,760 | 469 |
| Ohio..... | 528,388 | 891,609 | 924,727 | 930,463 | 1,113,968 | 1,107,895 | 1,107,888 | 0 | 107 |
| Indiana..... | 396,180 | 741,372 | 921,680 | 891,635 | 1,049,415 | 1,105,722 | 1,105,908 | 640 | 174 |
| Illinois..... | 110,709 | 396,775 | 474,234 | 646,668 | 792,162 ¹ | 919,638 | 919,520 | 0 | 118 |
| Michigan..... | 263,899 | 441,440 | 506,743 | 540,901 | 601,205 | 598,532 | 589,412 | 9,120 | 0 |
| Wisconsin..... | 178,497 | 329,213 | 384,974 | 379,303 | 357,649 | 407,246 | 407,176 | 0 | 70 |
| WEST NORTH CENTRAL | 302,173 | 1,162,234 | 1,117,843 | 1,330,295 | 1,570,818 | 1,821,687 | 1,820,748 | 0 | 939 |
| Minnesota..... | 54,155 | 250,640 | 217,133 | 200,936 | 212,701 | 279,229 | 279,229 | 0 | 0 |
| Iowa..... | 59,793 | 265,681 | 314,037 | 396,263 | 402,613 | 579,327 | 579,103 | 0 | 224 |
| Missouri..... | 150,065 | 454,635 | 365,672 | 465,319 | 570,886 | 562,928 | 562,841 | 0 | 87 |
| North Dakota..... | 3,000 | 21,060 | 20,173 | 20,880 | 34,128 | 41,098 | 41,098 | 0 | 0 |
| South Dakota..... | 500 | 10,000 | 6,135 | 7,651 | 11,201 | 19,908 | 19,722 | 0 | 186 |
| Nebraska..... | 2,300 | 32,760 | 47,067 | 77,595 | 100,848 | 144,521 | 144,128 | 0 | 393 |
| Kansas..... | 32,460 | 127,438 | 147,626 | 161,651 | 238,441 | 194,676 | 194,627 | 0 | 49 |
| SOUTH ATLANTIC | 5,067,365 | 5,811,850 | 6,354,362 | 6,438,237 | 6,838,414 | 6,712,946 | 6,708,713 | 0 | 4,233 |
| Delaware..... | 44,768 | 57,000 | 58,845 | 69,797 | 81,259 | 85,000 | 85,000 | 0 | 0 |
| Maryland..... | 208,720 | 245,039 | 252,644 | 272,292 | 286,687 | 295,104 | 295,104 | 0 | 0 |
| District of Columbia..... | 2,500 | 2,000 | 2,000 | 2,000 | 2,400 | 2,500 | 2,500 | 0 | 0 |
| Virginia..... | 534,717 | 685,863 | 767,932 | 807,359 | 845,721 | 802,607 | 801,019 | 0 | 1,588* |
| West Virginia..... | 69,494 | 101,826 | 104,467 | 103,027 | 96,334 | 84,168 | 84,168 | 0 | 0 |
| North Carolina..... | 1,443,581 | 1,537,837 | 1,818,921 | 1,746,479 | 1,872,685 | 1,820,622 | 1,819,668 | 0 | 954* |
| South Carolina..... | 894,547 | 962,932 | 1,014,253 | 938,936 | 971,565 | 956,251 | 956,071 | 0 | 180 |
| Georgia..... | 1,146,125 | 1,235,261 | 1,237,932 | 1,273,136 | 1,393,985 | 1,386,162 | 1,384,651 | 0 | 1,511* |
| Florida..... | 722,913 | 984,092 | 1,097,368 | 1,205,211 | 1,287,778 | 1,280,532 | 1,280,532 | 0 | 0 |
| SOUTH CENTRAL | 2,552,071 | 3,839,545 | 4,304,500 | 4,465,111 | 4,483,104 | 4,209,744 | 4,195,247 | 0 | 14,497 |
| Kentucky..... | 262,055 | 528,794 | 620,938 | 559,274 | 599,643 | 532,435 | 550,892 | 0 | 1,543* |
| Tennessee..... | 302,253 | 481,191 | 502,722 | 608,969 | 595,078 | 563,334 | 554,752 | 0 | 8,582* |
| Alabama..... | 829,399 | 1,045,979 | 1,054,754 | 1,094,648 | 1,115,893 | 1,040,500 | 1,036,864 | 0 | 3,436* |
| Mississippi..... | 508,995 | 879,356 | 764,437 | 764,051 | 707,473 | 654,805 | 654,299 | 0 | 506* |
| Arkansas..... | 203,083 | 334,742 | 366,184 | 415,091 | 365,528 | 398,063 | 398,063 | 0 | 0 |
| Louisiana..... | 219,517 | 241,589 | 278,708 | 302,623 | 335,805 | 292,907 | 292,907 | 0 | 0 |
| Oklahoma..... | 24,600 | 125,644 | 144,034 | 152,279 | 181,901 | 146,093 | 145,863 | 0 | 230 |
| Texas..... | 202,169 | 502,250 | 572,723 | 568,176 | 581,783 | 561,607 | 561,607 | 0 | 0 |
| WESTERN | 468,811 | 882,019 | 1,075,236 | 1,258,188 | 1,280,817 | 1,385,563 | 1,384,452 | 800 | 311 |
| Montana..... | 5,000 | 18,000 | 16,000 | 18,000 | 20,000 | 28,000 | 28,000 | 0 | 0 |
| Idaho..... | 11,043 | 80,088 | 63,050 | 60,000 | 50,000 | 76,000 | 76,000 | 0 | 0 |
| Wyoming..... | 2,000 | 5,500 | 6,500 | 6,500 | 7,000 | 8,000 | 8,000 | 0 | 0 |
| Colorado..... | 8,500 | 31,354 | 37,974 | 49,695 | 44,233 | 48,354 | 48,354 | 0 | 0 |
| New Mexico..... | 4,147 | 14,051 | 13,494 | 20,015 | 22,722 | 24,829 | 24,829 | 0 | 0 |
| Arizona..... | 18,546 | 46,099 | 106,960 | 109,234 | 116,047 | 116,047 | 116,047 | 0 | 0 |
| Utah..... | 4,350 | 16,487 | 28,554 | 30,053 | 25,313 | 32,420 | 32,305 | 0 | 115 |
| Nevada..... | 200 | 2,000 | 1,940 | 2,691 | 2,874 | 3,813 | 3,813 | 0 | 0 |
| Washington..... | 34,416 | 80,118 | 81,147 | 86,147 | 91,488 | 122,101 | 122,000 | 0 | 101 |
| Oregon..... | 38,510 | 75,285 | 107,931 | 100,350 | 119,695 | 122,999 | 122,904 | 0 | 95 |
| California..... | 322,009 | 513,037 | 640,646 | 777,777 | 788,058 | 803,000 | 802,200 | 800 | 0 |
| UNITED STATES | 11,462,821 | 16,449,088 | 17,983,988 | 18,826,107 | 20,076,522 ¹ | 20,236,723 | 20,165,945 | 50,329 | 20,449 |

* States or areas included in Tennessee River Valley.

† Revised.

¹ Preliminary Estimates.

ANNUAL FERTILIZER CONSUMPTION IN THE UNITED STATES

(Short Tons)

| YEAR | TONNAGE | YEAR | TONNAGE | YEAR | TONNAGE | YEAR | TOTAL TONNAGE | COMMERCIAL SALES | GOVERNMENT DIRECT DISTRIBUTION |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|------------------|--------------------------------|
| | | | | | | | | | |
| 1880..... | 1,150,000 | 1919..... | 6,626,000 | 1931..... | 6,354,000 | 1942..... | 9,949,000 | 8,722,000 | 1,227,000 |
| 1890..... | 1,950,000 | 1920..... | 7,177,000 | 1932..... | 4,385,000 | 1943..... | 11,463,000 | 10,564,000 | 899,000 |
| 1900..... | 2,200,000 | 1921..... | 4,863,000 | 1933..... | 4,908,000 | 1944..... | 12,055,000 | 11,202,000 | 853,000 |
| 1910..... | 3,453,000 | 1922..... | 5,671,000 | 1934..... | 5,583,000 | 1945..... | 13,302,000 | 12,300,000 | 902,000 |
| 1911..... | 6,024,000 | 1923..... | 6,445,000 | 1935..... | 6,276,000 | 1946..... | 14,892,000 | 14,512,000 | 380,000 |
| 1912..... | 5,767,000 | 1924..... | 6,826,000 | 1936..... | 6,931,000 | 1947..... | 15,039,000 | 14,787,000 | 252,000 |
| 1913..... | 6,337,000 | 1925..... | 7,334,000 | 1937..... | 8,226,000 | 1948..... | 15,980,000 | 15,773,000 | 207,000 |
| 1914..... | 7,100,000 | 1926..... | 7,329,000 | 1938..... | 7,548,000 | 1949..... | 16,449,000 | 16,291,000 | 158,000 |
| 1915..... | 5,324,000 | 1927..... | 6,844,000 | 1939..... | 7,707,000 | 1950..... | 17,984,000 | 17,871,000 | 113,000 |
| 1916..... | 5,125,000 | 1928..... | 7,986,000 | 1940..... | 8,249,000 | 1951..... | 18,826,000 | 18,680,000 | 146,000 |
| 1917..... | 5,926,000 | 1929..... | 8,012,000 | 1941..... | 9,183,000 | 1952..... | 20,076,522 | 19,992,522 | 83,000 |
| 1918..... | 6,467,000 | 1930..... | 8,222,000 | | | 1953..... | 20,237,000 | 20,166,000 | 71,000 |

TABLE 3
AVERAGE FERTILIZER APPLICATION RANGES FROM 2 POUNDS
PER ACRE IN SOUTH DAKOTA TO 1440 POUNDS
PER ACRE IN FLORIDA

Of the total, commercial sales in 1953 accounted for 20,165,945 tons (19,993,522 tons in 1952), Agricultural Conservation Program contract sales reached 50,329 tons (67,291 tons in 1952) and Tennessee Valley Authority distributed 20,449 tons (15,626 tons in 1952) for use in its demonstration program.

Strongly apparent (Table 1) is the remarkably brisk rate of growth of fertilizer use in the East North Central, West North Central and Western states. In these 3 regions (23 states), farmers used 581,249 tons more fertilizer last year than in the previous 12 months. However, all but 105,000 tons of this upsurge occurred in the Midwestern states. The greatest growth in a single region was shown in the West North Central states where 1,821,687 tons of fertilizer were reported applied to crops last year—a whopping 16 percent more—250,869 tons—than the 1,570,818 tons consumed a year ago.

In 6 states: Ohio (1,107,895 tons), Indiana (1,105,722 tons), North Carolina (1,820,622 tons), Georgia (1,386,162 tons), Florida (1,280,532 tons) and Alabama (1,040,500 tons), fertilizer consumption exceeded 1 million tons. In fact, farmers in these states used almost one-third of all the fertilizer consumed in this country last year.

Collectively, farmers in New England, Middle Atlantic, South Atlantic and South Central states used 421,048 tons less fertilizer in 1953 than they did in 1952.

In their never-ceasing search for ways to make more money per acre, farmers are learning more and more about the essential part fertilizer plays in reducing the unit cost of crop production.

For example, in the long-time, fertilizer-using area along the eastern seaboard (Figure 1), fertilizer applied per acre is relatively heavy. Last year it ranged from an average of 1440 pounds per harvested crop acre in Florida (Table 3), to 123 pounds in New Hampshire. However, most of the farmers in these 15 states applied an average of

| STATE AND REGION | FERTILIZER CONSUMPTION 1953 (SHORT TONS) | HARVESTED CROP ACRES 1953* (IN THOUSANDS) | AVERAGE POUNDS FERTILIZER APPLIED PER HARVESTED CROP ACRE |
|--------------------------------|--|---|---|
| NEW ENGLAND | 469,153 | 3,105 | 302 |
| Maine..... | 211,287 | 980 | 432 |
| New Hampshire..... | 20,291 | 331 | 123 |
| Vermont..... | 50,582 | 1,012 | 100 |
| Massachusetts..... | 85,454 | 403 | 424 |
| Rhode Island..... | 14,299 | 47 | 608 |
| Connecticut..... | 87,240 | 332 | 526 |
| MIDDLE ATLANTIC | 1,497,597 | 12,112 | 247 |
| New York..... | 640,000 | 5,686 | 225 |
| New Jersey..... | 252,904 | 808 | 626 |
| Pennsylvania..... | 604,693 | 5,618 | 215 |
| EAST NORTH CENTRAL | 4,140,033 | 61,364 | 135 |
| Ohio..... | 1,107,895 | 10,899 | 203 |
| Indiana..... | 1,106,722 | 11,315 | 196 |
| Illinois..... | 919,638 | 21,095 | 87 |
| Michigan..... | 598,532 | 7,927 | 151 |
| Wisconsin..... | 407,246 | 10,128 | 80 |
| WEST NORTH CENTRAL | 1,821,687 | 134,809 | 27 |
| Minnesota..... | 279,229 | 19,399 | 29 |
| Iowa..... | 579,327 | 22,656 | 51 |
| Missouri..... | 562,928 | 12,163 | 93 |
| North Dakota..... | 41,098 | 21,257 | 4 |
| South Dakota..... | 19,908 | 17,848 | 2 |
| Nebraska..... | 144,521 | 20,182 | 14 |
| Kansas..... | 194,676 | 21,304 | 18 |
| SOUTH ATLANTIC | 6,710,446 | 25,175 | 533 |
| Delaware..... | 85,000 | 434 | 392 |
| Maryland..... | 295,104 | 1,592 | 371 |
| Virginia..... | 802,607 | 3,366 | 477 |
| West Virginia..... | 84,168 | 1,170 | 144 |
| North Carolina..... | 1,820,622 | 6,180 | 589 |
| South Carolina..... | 956,251 | 4,164 | 459 |
| Georgia..... | 1,386,162 | 6,490 | 427 |
| Florida..... | 1,280,532 | 1,779 | 1440 |
| SOUTH CENTRAL | 4,209,744 | 63,584 | 132 |
| Kentucky..... | 552,435 | 4,785 | 231 |
| Tennessee..... | 563,334 | 5,344 | 211 |
| Alabama..... | 1,040,500 | 5,016 | 415 |
| Mississippi..... | 654,805 | 5,466 | 240 |
| Arkansas..... | 398,063 | 5,302 | 150 |
| Louisiana..... | 292,907 | 2,969 | 197 |
| Oklahoma..... | 146,093 | 11,232 | 26 |
| Texas..... | 561,607 | 23,470 | 48 |
| WESTERN | 1,385,563 | 41,089 | 67 |
| Montana..... | 28,000 | 9,837 | 6 |
| Idaho..... | 76,000 | 3,824 | 40 |
| Wyoming..... | 8,000 | 2,002 | 8 |
| Colorado..... | 48,354 | 6,132 | 16 |
| New Mexico..... | 24,829 | 1,269 | 39 |
| Arizona..... | 116,047 | 1,301 | 178 |
| Utah..... | 32,420 | 1,307 | 50 |
| Nevada..... | 3,813 | 434 | 18 |
| Washington..... | 122,101 | 4,322 | 57 |
| Oregon..... | 122,999 | 3,015 | 82 |
| California..... | 803,000 | 7,646 | 210 |
| UNITED STATES | 20,234,223 | 341,238 | 119 |

*Includes 60 principal crops.
 Source: USDA and NFA.

from 350 pounds to 600 pounds of fertilizer per acre. Compare this with the average 2 pound application in South Dakota, the 80 pounds used in Wisconsin or the 87 pound per acre average in Illinois. But, consider this—just 10 years ago, farmers in the East North Central states plus those in the West North Central states used but 1,779,846 tons—scarcely more than was applied to fields in Ohio and Michigan alone in 1953.

Continuing low prices of fertilizer in relation to the increased profits that come to farmers from the use of recommended amounts of fertilizer is a major factor in the healthy year-to-year increase in fertilizer use per acre. In order to appreciate better the significance of these figures, if the 11.5 million tons of fertilizer consumed in 1943 had been spread equally over the 363 million acres that were harvested during that year, each acre would have received about 63 pounds. By comparison, the 20.2 million tons consumed in 1953 would have given each of the 341 million harvested acres an allotment of 119 pounds—very nearly double the amount of a decade ago. What's more important, the plant-nutrient content of a ton of average fertilizer has increased in the same time—from 20.4 percent in 1943 to 24.0 per cent in 1953*.

This annual survey is possible because of the excellent cooperation given NFA by state agriculture department officials in each of the states. Fertilizer consumption figures are taken from tax tag sale reports, state shipment reports, state fertilizer use reports and, in isolated instances, estimates have been made from figures furnished by reliable authorities. NFA figures

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cover the year January 1, 1953—December 31, 1953, and do not include rock phosphate, colloidal phosphate, gypsum, barnyard manure or soil amendments.

*Historical Statistics of the United States and Commercial Fertilizers Consumption in The United States, 1952-53.

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Table 1. - Consumption of Fertilizers, Year Ended June 30, 1951^{1/}

| State & Region | Mixtures | | | Materials ^{2/} | | | All Fertilizers 1952-53 | Relative Consumption 1951-52 = 100 | |
|----------------------|------------------------|------------------------|------------|-------------------------|------------------------|-----------|-------------------------|------------------------------------|--|
| | July 1 - Dec. 31, 1952 | Jan. 1 - June 30, 1953 | Total | July 1 - Dec. 31, 1952 | Jan. 1 - June 30, 1953 | Total | | Fertilizers ^{3/} | Total N, Avail. P ₂ O ₅ & K ₂ O |
| | Tons | Tons | Tons | Tons | Tons | Tons | | Percent | Percent |
| Maine | 25,686 | 175,752 | 201,447 | 2,955 | 7,073 | 10,038 | 211,485 | 99 | 101 |
| New Hampshire | 1,897 | 13,404 | 15,301 | 988 | 5,168 | 6,156 | 21,455 | 102 | 110 |
| Vermont | 11,197 | 24,251 | 35,448 | 7,444 | 6,881 | 14,325 | 49,773 | 89 | 91 |
| Massachusetts | 9,646 | 58,446 | 68,092 | 4,949 | 12,332 | 17,281 | 85,373 | 93 | 94 |
| Rhode Island | 1,355 | 11,989 | 13,354 | 530 | 1,627 | 2,157 | 15,511 | 93 | 93 |
| Connecticut | 4,900 | 55,024 | 59,924 | 4,064 | 23,680 | 27,744 | 87,666 | 100 | 101 |
| New England | 54,690 | 335,676 | 390,366 | 20,940 | 56,759 | 77,699 | 471,265 | 97 | 99 |
| New York | 118,413 | 399,107 | 517,520 | 49,698 | 92,325 | 142,023 | 659,543 | 104 | 106 |
| New Jersey | 55,751 | 192,747 | 248,498 | 8,441 | 19,487 | 27,928 | 277,426 | 105 | 106 |
| Pennsylvania | 164,576 | 443,586 | 608,163 | 27,001 | 61,380 | 88,381 | 697,344 | 106 | 108 |
| Delaware | 16,057 | 69,633 | 85,690 | 940 | 4,254 | 5,194 | 90,884 | 113 | 120 |
| District of Columbia | 586 | 1,381 | 1,967 | 174 | 445 | 620 | 2,587 | 102 | 103 |
| Maryland | 76,461 | 204,650 | 281,111 | 7,973 | 14,601 | 22,574 | 303,685 | 102 | 106 |
| West Virginia | 14,742 | 55,353 | 70,095 | 4,934 | 12,248 | 17,182 | 87,277 | 87 | 89 |
| Middle Atlantic | 447,595 | 1,356,459 | 1,804,044 | 99,961 | 204,741 | 304,702 | 2,118,746 | 104 | 107 |
| Virginia | 173,786 | 564,647 | 738,433 | 26,625 | 88,375 | 115,000 | 853,433 | 97 | 100 |
| North Carolina | 253,771 | 1,303,751 | 1,557,522 | 77,774 | 256,344 | 334,118 | 1,601,640 | 98 | 99 |
| South Carolina | 115,655 | 599,039 | 714,694 | 54,041 | 211,195 | 265,237 | 975,931 | 100 | 100 |
| Georgia | 207,895 | 915,872 | 1,123,668 | 68,105 | 194,291 | 262,397 | 1,386,955 | 106 | 110 |
| Florida | 406,390 | 643,564 | 1,049,954 | 50,735 | 81,817 | 132,552 | 1,154,506 | 106 | 111 |
| South Atlantic | 1,129,498 | 4,022,673 | 5,152,171 | 277,281 | 842,023 | 1,119,304 | 6,271,475 | 102 | 104 |
| Ohio | 372,711 | 711,113 | 1,083,824 | 29,659 | 60,718 | 90,377 | 1,174,201 | 112 | 115 |
| Indiana | 257,268 | 766,179 | 1,023,447 | 57,036 | 123,310 | 180,346 | 1,205,793 | 111 | 118 |
| Illinois | 172,369 | 472,323 | 644,692 | 503,905 | 604,569 | 1,008,474 | 1,653,166 | 115 | 128 |
| Michigan | 198,953 | 384,491 | 583,444 | 16,807 | 47,725 | 64,532 | 647,976 | 110 | 114 |
| Wisconsin | 58,672 | 318,717 | 377,389 | 12,897 | 28,980 | 41,877 | 419,466 | 106 | 109 |
| East North Central | 1,060,173 | 2,654,823 | 3,714,996 | 620,304 | 765,302 | 1,385,606 | 5,100,602 | 112 | 118 |
| Minnesota | 30,170 | 176,677 | 206,847 | 17,222 | 43,640 | 60,862 | 287,709 | 119 | 120 |
| Iowa | 50,314 | 316,232 | 366,546 | 59,212 | 124,706 | 183,918 | 550,446 | 129 | 140 |
| Missouri | 156,229 | 312,642 | 468,871 | 170,675 | 194,248 | 364,923 | 833,594 | 111 | 116 |
| North Dakota | 4,250 | 14,704 | 18,954 | 8,543 | 14,988 | 23,531 | 40,495 | 129 | 138 |
| South Dakota | 833 | 7,128 | 7,961 | 2,134 | 6,668 | 8,802 | 16,623 | 147 | 175 |
| Nebraska | 11,294 | 38,146 | 49,429 | 30,223 | 66,250 | 96,473 | 145,902 | 154 | 161 |
| Kansas | 89,818 | 40,933 | 130,751 | 82,770 | 46,108 | 128,878 | 239,629 | 115 | 132 |
| West North Central | 322,768 | 906,461 | 1,229,229 | 368,679 | 486,608 | 855,287 | 2,094,516 | 120 | 130 |
| Kentucky | 51,710 | 376,870 | 428,580 | 54,472 | 101,147 | 155,619 | 614,199 | 97 | 103 |
| Tennessee | 85,230 | 332,379 | 417,609 | 60,200 | 102,102 | 162,302 | 579,911 | 96 | 100 |
| Alabama | 112,825 | 733,899 | 846,724 | 180,873 | 230,900 | 411,773 | 1,258,497 | 94 | 94 |
| Mississippi | 18,396 | 317,325 | 335,721 | 193,768 | 207,145 | 400,913 | 736,634 | 89 | 92 |
| East South Central | 298,161 | 1,750,473 | 2,048,634 | 489,313 | 641,294 | 1,130,607 | 3,189,241 | 94 | 96 |
| Arkansas | 21,590 | 175,374 | 196,964 | 49,677 | 119,425 | 169,102 | 366,066 | 102 | 109 |
| Louisiana | 31,717 | 148,414 | 180,131 | 54,599 | 84,123 | 138,722 | 318,853 | 96 | 99 |
| Oklahoma | 19,846 | 40,594 | 60,440 | 52,606 | 33,889 | 86,495 | 146,935 | 85 | 100 |
| Texas | 62,326 | 220,873 | 283,199 | 141,100 | 146,205 | 287,305 | 670,505 | 93 | 99 |
| West South Central | 135,479 | 585,255 | 720,734 | 297,982 | 363,643 | 661,625 | 1,402,369 | 95 | 102 |
| Montana | 720 | 3,199 | 3,919 | 6,847 | 15,257 | 22,104 | 26,023 | 112 | 113 |
| Idaho | 493 | 13,942 | 14,435 | 15,324 | 44,332 | 59,656 | 74,091 | 101 | 100 |
| Wyoming | 331 | 2,694 | 3,025 | 1,681 | 7,148 | 8,829 | 11,844 | 172 | 174 |
| Colorado | 3,215 | 15,653 | 18,868 | 8,690 | 20,992 | 29,682 | 48,560 | 102 | 98 |
| New Mexico | 782 | 1,767 | 2,549 | 8,846 | 16,395 | 25,241 | 27,791 | 144 | 150 |
| Arizona | 6,376 | 18,126 | 24,502 | 32,934 | 74,313 | 107,247 | 131,749 | 109 | 112 |
| Utah | 840 | 2,673 | 3,513 | 7,210 | 21,440 | 28,650 | 31,963 | 104 | 103 |
| Nevada | 154 | 556 | 710 | 2,780 | 7,533 | 10,313 | 11,023 | 123 | 132 |
| Mountain | 12,711 | 56,600 | 69,311 | 84,312 | 207,411 | 291,723 | 363,034 | 110 | 111 |
| Washington | 5,897 | 24,348 | 30,245 | 35,745 | 58,384 | 94,129 | 124,374 | 134 | 142 |
| Oregon | 3,139 | 16,291 | 19,430 | 56,199 | 72,340 | 128,539 | 147,969 | 126 | 122 |
| California | 86,901 | 163,791 | 249,692 | 870,684 | 831,318 | 1,602,002 | 1,751,744 | 104 | 105 |
| Pacific | 94,837 | 204,430 | 299,267 | 762,778 | 962,042 | 1,724,820 | 2,024,087 | 109 | 111 |
| Continental U. S. | 3,555,902 | 11,898,050 | 15,453,952 | 3,021,660 | 4,559,623 | 7,581,283 | 23,036,325 | 104 | 109 |
| Hawaii | 29,077 | 29,366 | 58,433 | 34,079 | 36,820 | 70,899 | 129,332 | 112 | 114 |
| Puerto Rico | 102,381 | 107,322 | 209,703 | 12,362 | 25,233 | 37,595 | 247,298 | 94 | 93 |
| Alaska | 0 | 136 | 136 | 0 | 517 | 517 | 563 | 116 | 116 |
| Territories | 131,458 | 136,816 | 268,272 | 46,441 | 62,570 | 109,011 | 377,283 | 99 | 100 |
| Total U. S. | 3,687,360 | 12,034,864 | 15,722,224 | 3,067,991 | 4,622,393 | 7,690,384 | 23,412,608 | 104 | 109 |
| 1952-53 | 3,533,404 | 11,552,945 | 15,086,349 | 2,856,958 | 4,469,111 | 7,346,069 | 22,432,418 | 100 | 100 |
| 1951-52 | 3,384,456 | 10,593,926 | 13,978,382 | 2,940,994 | 4,072,018 | 7,013,012 | 20,991,394 | 94 | 91 |

^{1/} Includes: Ground phosphate rock, basic slag, secondary and trace element materials, such as, borax, sulfur, manganese sulfate, etc., used as separate materials, also fertilizers distributed by Government agencies. Does not include liming materials, but includes gypsum.

^{2/} Excludes the quantities of materials used for manufacture of commercial mixtures.

^{3/} Fertilizers which were guaranteed to contain primary plant nutrients (N, P₂O₅, K₂O).

USDA REPORT: FERTILIZER CONSUMED YEAR ENDING JUNE 30, 1953

By WALTER SCHOLL, HILDA M. WALLACE & ESTHER I. FOX

Fertilizer And Agricultural Lime Section
Soil And Water Conservation Research Branch
Agricultural Research Service
U. S. Department of Agriculture
Beltsville, Maryland

Consumption of commercial fertilizers in the United States, including the Territories (Hawaii, Puerto Rico, Alaska) for the year ended June 30, 1953, amounted to 23,412,608 tons. This quantity represents an increase of 4.4 percent or 980,190 tons more than the 22,432,418 tons consumed in the 1951-52 season. In 1952-53, of the total consumed, 15,722,224 tons were commercial mixtures, 6,812,897 tons were separate materials containing primary nutrients (N, P_2O_5 , K_2O), and 877,487 tons were secondary and trace element materials having no primary nutrients. The consumption of these classes of fertilizers were 4.2 percent, or 635,875 tons; 3.8 percent, or 251,878 tons; and 11.8 percent, or 92,437 tons more than the corresponding classes for the 1951-52 season.

Fertilizers consumed in 1952-53 contained a total of 5,648,016 tons of primary nutrients. This is 445,031 tons (8.6 percent) more than the revised total of 5,203,003 tons consumed in 1951-52. Fertilizers consumed in 1952-53 contained 1,637,056 tons of nitrogen, 2,270,750 tons of available P_2O_5 , and 1,740,210 tons of K_2O . These quantities represented a net increase for nitrogen of 214,896 tons (15.1 percent), for available P_2O_5 71,374 tons (3.2 percent), and for K_2O 158,743 tons (10.0 percent) over 1951-52. The total content of P_2O_5 in all fertilizers consumed was 2,767,990 tons. The weighted average total primary nutrient content in all commercial mixtures consumed in 1952-53 was 25.85 percent as compared with 24.86 percent in 1951-52. For all fertilizers containing primary nutrients, it was 25.06 percent in 1952-53 as compared with 24.04 percent in 1951-52.

The tabulations presented herein were prepared from reports submitted by manufacturers to the Fertilizer and Agricultural Lime Section, showing the number of tons of fertilizer shipments for consumption in agriculture throughout the forty-eight States and the Territories. Supplementary information was furnished by the State fertilizer control officials and agronomists. All of this assistance is gratefully acknowledged. The word "ton" means the short ton of 2,000 pounds.

CONSUMPTION

The total consumption of the two principal classes of fertilizers, mixtures and materials, is summarized by States and regions in Table I. Although the use of fertilizers in 1952-53 for the United States as a whole showed a net gain of 4.4 percent over 1951-52, consumption in fourteen States and Puerto Rico were from one to 15 percent below 1951-52. In most of the States of the

New England and South Central regions, consumption of fertilizers was below the level established in 1951-52 for both mixtures and materials. In Kentucky and Tennessee, however, consumption of materials was higher than in 1951-52, while in Louisiana consumption of mixtures was higher. The total consumption for these States, nevertheless, was below that of 1951-52. Total consumption in three States of these regions, Arkansas, Connecticut, and New Hampshire was equal to or above their consumption in 1951-52.

The percentage increases in consumption averaged highest in the West North Central region, followed by the East North Central, Mountain, and Pacific regions, in the order named. Consumption of primary nutrient fertilizers in States of these regions rose from one to 72 percent with average increases for these regions of 20, 12, 10 and 9 percent, respectively. In tonnage of primary

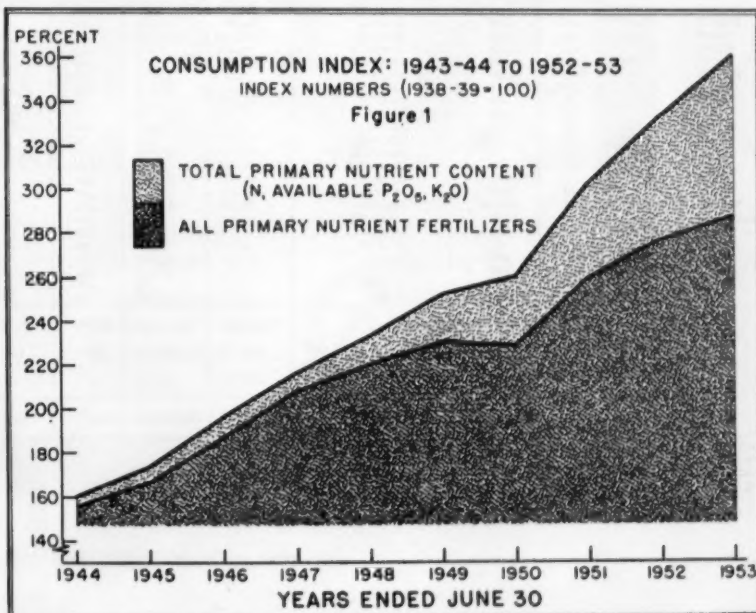


Table 2. - Consumption of Principal Mixed Fertilizers in the Continental United States, by Grades, Years Ended June 30, 1952 and 1951

| Grade | Consumption | | Proportion of Total | | Grade | Consumption | | Proportion of Total | |
|---------|-------------|-----------|---------------------|---------|--------------------------------------|-------------|------------|---------------------|---------|
| | 1952-53 | | 1951-52 | | | 1952-53 | | 1951-52 | |
| | Tons | Tons | Percent | Percent | | Tons | Tons | Percent | Percent |
| 0-0-0 | 4,026 | 4,510 | .05 | .05 | 6-6-9 | 3,012 | 9,108 | .08 | .06 |
| 0-0-7 | 25,697 | 36,000 | .17 | .24 | 6-6-10 | 2,942 | 1,121 | .02 | .01 |
| 0-10-0 | 3,194 | 4,886 | .08 | .03 | 6-6-12 | 6,637 | 1,754 | .03 | .01 |
| 0-10-10 | 82,187 | 81,740 | .60 | .62 | 6-6-18 | 9,729 | 6,846 | .06 | .04 |
| 0-10-20 | 36,324 | 28,925 | .23 | .18 | 6-7-7 | 8,224 | 4,454 | .06 | .02 |
| 0-10-45 | 5,786 | 5,023 | .04 | .04 | 6-8-4 | 216,178 | 210,566 | 1.59 | 1.65 |
| 0-12-12 | 153,581 | 101,180 | .80 | 1.29 | 6-8-6 | 229,970 | 263,583 | 1.66 | 1.78 |
| 0-12-18 | 5,840 | 2,080 | .08 | .03 | 6-8-8 | 274,168 | 269,656 | 1.77 | 1.82 |
| 0-12-20 | 25,983 | 26,987 | .17 | .18 | 6-8-12 | 42,688 | 43,525 | .28 | .30 |
| 0-12-24 | 6,076 | 4,243 | .04 | .03 | 6-8-16 | 2,972 | 1,502 | .02 | .01 |
| 0-14-6 | 2,482 | 2,401 | .02 | .02 | 6-8-3 | 6,486 | 6,401 | .04 | .04 |
| 0-14-7 | 76,532 | 141,094 | .49 | .86 | 6-10-0 | 15,890 | 15,743 | .09 | .09 |
| 0-14-10 | 26,786 | 45,518 | .17 | .29 | 6-10-9 | 6,171 | 9,779 | .05 | .07 |
| 0-14-14 | 286,586 | 289,421 | 1.78 | 2.22 | 6-10-12 | 70,840 | 89,546 | .46 | .47 |
| 0-14-18 | 31,708 | 16,176 | .21 | .11 | 6-10-14 | 89,228 | 81,850 | .58 | .62 |
| 0-15-0 | 12,868 | 8,550 | .09 | .06 | 6-10-10 | 22,400 | 2,362 | .02 | .01 |
| 0-15-6 | 9,808 | 6,541 | .06 | .04 | 6-12-4 | 5,008 | 4,252 | .02 | .02 |
| 0-15-18 | 6,937 | 6,928 | .04 | .06 | 6-12-6 | 85,094 | 88,967 | .54 | .56 |
| 0-15-19 | 2,878 | 1,899 | .02 | .01 | 6-12-12 | 168,666 | 116,468 | 1.07 | .92 |
| 0-20-0 | 29,770 | 41,248 | .19 | .28 | 6-12-18 | 9,972 | 400 | .03 | --- |
| 0-20-20 | 304,969 | 281,247 | 1.97 | 1.68 | 6-24-0 | 30,426 | 25,896 | .20 | .16 |
| 0-24-4 | 3,107 | 1,079 | .02 | .01 | 6-24-12 | 22,400 | 10,560 | .16 | .07 |
| 0-30-18 | 5,838 | 5,842 | .02 | .02 | 6-24-24 | 6,516 | 3,242 | .04 | .02 |
| 0-30-30 | 6,532 | 1,978 | .04 | .01 | 6-30-0 | 2,625 | 3,101 | .02 | .02 |
| 2-0-10 | 4,164 | 6,504 | .05 | .04 | 7-0-7 | 2,878 | 61 | .02 | (1/2) |
| 2-10-6 | 7,797 | 7,520 | .06 | .06 | 7-0-11 | 2,914 | 29 | .02 | (1/2) |
| 2-10-8 | 186,410 | 317,960 | 1.03 | 2.15 | 7-7-7 | 94,802 | 37,504 | .25 | .25 |
| 2-12-12 | 409,203 | 402,717 | 2.66 | 2.72 | 7-9-9 | 5,911 | --- | .03 | --- |
| 2-16-8 | 8,600 | 15,401 | .02 | .09 | 8-0-8 | 13,061 | 15,194 | .08 | .10 |
| 2-16-6 | 6,442 | 13,065 | .04 | .09 | 8-0-12 | 10,127 | 1,864 | .07 | .01 |
| 2-16-8 | 19,866 | 27,821 | .11 | .18 | 8-0-14 | 16,823 | 21,926 | .12 | .18 |
| 2-16-8 | 671,214 | 809,226 | 4.34 | 5.40 | 8-0-18 | 5,979 | 2,382 | .03 | .02 |
| 2-16-9 | 456,689 | 407,638 | 2.96 | 2.75 | 8-4-8 | 15,429 | 11,087 | .07 | .05 |
| 2-16-12 | 87,745 | 49,464 | .24 | .29 | 8-6-10 | 2,901 | 669 | .03 | (1/2) |
| 2-16-16 | 7,081 | 4,571 | .05 | .03 | 8-6-2 | 2,901 | 2,979 | .02 | .02 |
| 2-16-18 | 194,642 | 185,399 | 1.00 | 1.24 | 8-6-4 | 3,935 | 4,622 | .02 | .03 |
| 2-16-17 | 119,709 | 79,871 | .76 | .54 | 8-6-5 | 9,921 | 6,162 | .03 | .04 |
| 2-16-8 | 6,068 | 404 | .03 | (1/2) | 8-6-6 | 7,725 | 10,128 | .04 | .07 |
| 2-16-10 | 3,496 | 6,650 | .02 | .04 | 8-8-4 | 20,192 | 21,323 | .13 | .14 |
| 2-16-12 | 7,716 | 10,230 | .06 | .07 | 8-8-8 | 242,242 | 286,142 | 2.21 | 1.93 |
| 2-16-6 | 478,687 | 662,454 | 3.10 | 4.47 | 8-9-10 | 6,697 | 3,893 | .03 | .03 |
| 2-12-12 | 2,241,127 | 2,591,712 | 14.50 | 16.41 | 8-10-12 | 18,961 | 11,616 | .09 | .06 |
| 2-16-6 | 114,518 | 107,907 | 0.74 | .73 | 8-10-12 | 15,314 | 12,371 | .10 | .08 |
| 4-0-7 | 2,701 | 2,768 | .02 | .02 | 8-12-18 | 34,069 | 28,626 | .23 | .19 |
| 4-0-6 | 6,126 | 7,718 | .04 | .06 | 8-16-6 | 7,660 | 4,740 | .06 | .03 |
| 4-0-6 | 17,290 | 12,566 | .11 | .08 | 8-16-16 | 67,240 | 43,076 | .44 | .29 |
| 4-0-8 | 51,607 | 71,642 | .33 | .48 | 8-24-6 | 106,141 | 63,619 | .69 | .43 |
| 4-0-8 | 130,638 | 119,512 | .86 | .81 | 8-24-0 | 55,376 | 35,111 | .34 | .22 |
| 4-0-7 | 5,072 | 80 | .03 | (1/2) | 8-24-4 | 6,432 | 864 | .04 | (1/2) |
| 4-0-8 | 15,736 | 16,430 | .09 | .11 | 8-7-4 | 12,178 | 6,238 | .08 | .06 |
| 4-0-8 | 461,175 | 551,664 | 3.11 | 3.59 | 8-0-9 | 8,737 | 4,969 | .06 | .04 |
| 4-0-8 | 330,422 | 243,873 | 2.14 | 1.78 | 8-18-8 | 4,066 | 2,068 | .03 | .01 |
| 4-0-10 | 62,460 | 59,621 | .43 | .27 | 10-0-10 | 24,394 | 28,165 | .22 | .26 |
| 4-0-12 | 75,186 | 91,460 | .50 | .81 | 10-0-10 | 5,613 | 4,836 | .02 | .03 |
| 4-0-6 | 77,400 | 81,980 | .50 | .86 | 10-0-6 | 5,151 | 1,364 | .02 | .01 |
| 4-10-6 | 581,656 | 622,084 | 3.76 | 4.20 | 10-0-10 | 3,296 | 3,414 | .02 | .01 |
| 4-10-7 | 227,094 | 208,658 | 2.41 | 2.43 | 10-0-4 | 38,403 | 30,755 | .26 | .21 |
| 4-10-8 | 5,094 | 5,177 | .03 | .03 | 10-10-0 | 18,397 | 19,908 | .13 | .13 |
| 4-10-10 | 6,456 | 7,464 | .06 | .06 | 10-10-6 | 143,200 | 84,976 | .78 | .47 |
| 4-12-4 | 191,110 | 247,563 | 1.14 | 1.67 | 10-10-10 | 400,580 | 159,392 | 2.89 | .94 |
| 4-12-6 | 7,546 | 8,728 | .06 | .06 | 10-12-12 | 6,416 | 3,451 | .03 | .02 |
| 4-12-12 | 180,802 | 216,722 | 1.04 | 1.46 | 10-18-18 | 8,957 | 4,913 | .04 | .02 |
| 4-12-12 | 204,680 | 82,582 | 1.32 | .56 | 10-16-8 | 10,468 | 10,600 | .07 | .07 |
| 4-12-16 | 3,036 | 3,689 | .02 | .03 | 10-10-0 | 181,200 | 84,976 | .78 | .47 |
| 4-16-0 | 29,582 | 45,397 | .17 | .29 | 10-20-10 | 23,234 | 12,758 | .15 | .09 |
| 4-16-8 | 71,296 | 62,940 | .46 | .42 | 10-20-20 | 2,900 | 1,702 | .02 | .01 |
| 4-16-16 | 479,508 | 216,224 | 3.08 | 1.46 | 10-30-13 | 6,391 | 11,366 | .04 | .08 |
| 4-16-12 | 81,226 | 86,290 | .53 | .58 | 12-0-10 | 12,584 | 9,076 | .06 | .06 |
| 4-16-8 | 5,935 | 5,559 | .02 | .02 | 12-0-12 | 10,807 | 6,941 | .07 | .05 |
| 4-16-8 | 7,461 | 10,586 | .06 | .07 | 12-0-6 | 4,449 | 217 | .03 | (1/2) |
| 4-16-8 | 7,792 | 7,490 | .06 | .06 | 12-0-8 | 2,819 | 1,897 | .02 | .01 |
| 4-16-10 | 6,163 | 5,101 | .04 | .04 | 12-12-6 | 3,265 | 990 | .02 | .01 |
| 4-16-8 | 25,977 | 16,977 | .17 | .13 | 12-12-12 | 72,967 | 32,076 | .47 | .22 |
| 4-16-10 | 5,062 | 7,860 | .03 | .05 | 12-14-0 | 9,860 | 9,366 | .06 | .06 |
| 4-16-7 | 19,708 | 26,321 | .13 | .16 | 12-14-12 | 26,991 | 24,432 | .24 | .17 |
| 4-16-8 | 4,432 | 3,942 | .03 | .03 | 13-12-13 | 16,786 | 287 | .10 | (1/2) |
| 4-16-8 | 877,440 | 908,553 | 6.69 | 6.15 | 14-0-14 | 30,362 | 26,601 | .20 | .17 |
| 4-16-10 | 1,116,741 | 885,820 | 7.22 | 5.93 | 14-14-0 | 5,008 | 9 | .03 | (1/2) |
| 4-16-18 | 35,421 | 10,538 | .21 | .07 | 16-0-12 | 3,078 | 2,367 | .02 | .02 |
| 4-16-16 | 16,318 | 10,539 | .11 | .07 | 16-0-14 | 2,579 | 1,047 | .02 | .01 |
| 4-16-20 | 8,746 | 2,446 | .02 | .02 | 16-0-6 | 14,453 | 11,329 | .09 | .08 |
| 4-16-10 | 22,831 | 9,442 | .15 | .06 | 16-10-0 | 32,604 | 7,124 | .21 | .06 |
| 4-16-16 | 4,094 | 11,420 | .03 | .08 | 16-0-16 | 2,672 | 125 | .02 | (1/2) |
| 4-16-30 | 4,023 | 5,297 | .03 | .02 | 17-0-0 | 22,807 | 27,487 | .21 | .16 |
| 4-20-10 | 17,117 | 19,328 | .11 | .11 | | | | | |
| 4-20-20 | 87,678 | 41,045 | .57 | .23 | 17V mixtures | 16,066,603 | 14,438,505 | 97.40 | 97.50 |
| 4-20-10 | 22,114 | 22,169 | .14 | .15 | Other specified grades ^{2/} | 259,885 | 221,685 | 1.68 | 1.90 |
| 4-20-8 | 9,063 | 6,361 | .06 | .04 | Grades not shown ^{3/} | 129,663 | 88,314 | .93 | .60 |
| 4-20-8 | 14,588 | 10,604 | .09 | .07 | | | | | |
| 4-20-10 | 3,054 | 5,830 | .02 | .02 | | | | | |
| 4-20-12 | 8,333 | 89 | .02 | (1/2) | | | | | |
| 4-20-8 | 79,338 | 70,380 | .51 | .48 | | | | | |
| 4-20-8 | 26,968 | 19,738 | .11 | .15 | Total ^{1/} | 16,488,982 | 14,808,504 | 100.00 | 100.00 |

Less than 0.01 percent.

There were 1,149 in 1952-53 and 984 in 1951-52.

There were, at least, 250 grades not shown by their guaranteed analysis.

Does not include the quantity of mixtures consumed in the Territories.

nutrient fertilizers, increases were highest for the East and West North Central regions. Consumption in these regions was 548,341 tons and 344,457 tons above their 1951-52 consumption, respectively.

In the South Atlantic region where the largest tonnage of primary nutrient fertilizers is used, increases in consumption have grown smaller during the past three years. Consumption in 1950-51 was 582,997 tons above the 1949-50 level, in 1951-52, it was but 178,750 tons above 1950-51, and in 1952-53, it was but 93,534 tons above 1951-52.

MIXTURES

The total of all commercial mixtures consumed in the United States and Territories amounted to 15,722,224 tons comprising 1,439 grades reported by their guaranteed analysis and approximately 300 grades the guaranteed analysis of which were not reported. Consumption of mixed fertilizers in 1952-53 was 635,875 tons (4.2 percent) more than the 15,086,349 tons consumed in 1951-52. The quantity of mixtures consumed in the current year also represents 67.15 percent of all fertilizers consumed in the United States and the Territories.

The grades of commercial mixtures reported consumed in amounts of 2,500 tons or more in Continental U. S. in 1952-53, and their consumption in 1951-52, are shown in Table 2. There were 177 of these grades, totaling 15,066,403 tons in 1952-53 and accounting for 97.49 percent of the total quantity of mixtures consumed in Continental U. S. Other grades, numbering 1,149, totaling 258,881 tons, and approximately 300 grades, not reported by their guaranteed analysis and totaling 128,663 tons, were also consumed. In addition, 268,272 tons, not included in Table 2, were consumed in the Territories. Grades consumed in the Territories are not included in Table 2, because those consumed in Hawaii were reported in fractional numbers and the principal grades consumed in Puerto Rico were not the kind generally used in Continental U. S.

The four grades most favored in Continental U. S. were the 3-12-12,

F.S. ROYSTER GUANO CO.



MANUFACTURERS *of*
COMMERCIAL FERTILIZER
AND DEALERS IN
FERTILIZER MATERIALS

OFFICES AND FACTORIES

NORFOLK, VIRGINIA

Lynchburg, Va.
Tarboro, N. C.
Washington, N. C.
Wilmington, N. C.
Charlotte, N. C.
Charleston, S. C.

Columbia, S. C.
Spartanburg, S. C.
Atlanta, Ga.
Macon, Ga.
Bessemer, Ala.
Montgomery, Ala.
Mulberry, Fla.

Jackson, Miss.
Baltimore, Md.
Lyons, N. Y.
Toledo, Ohio
Indianapolis, Ind.
Madison, Wis.

The national weighted average primary nutrient content of mixed fertilizers increased from 24.86 percent in 1951-52 to 25.85 percent in 1952-53. This average, in 1952-53, comprised nitrogen, 4.63; available P_2O_5 , 11.34; and K_2O , 9.88 percent. The percentage of these nutrients in 1951-52, were 4.30, 11.4, and 9.42, respectively. In the current year, the average N, P_2O_5 , K_2O content of mixtures increased 7.6, 1.8, and 4.9 percent over the corresponding figures for 1951-52. The average nutrient content of all mixtures consumed in each State is shown in Table 7. Although the national average of mixtures shows a general trend upward in all nutrients, the average N content of mixtures con-

and those averaging less K_2O were mostly located in the Western half of the United States.

The national consumption of unmixed materials amounted to 7,690,384 tons in 1952-53. This quantity represents an increase of 344,315 tons or 4.7 percent more than the 7,346,069 tons consumed in 1951-52. The total quantity of materials consumed in 1952-53 comprised 2,987.

[illegible]

299 tons of chemical nitrogen materials, 359,037 tons of natural organics, 3,109,635 tons of phosphates including the ammonium phosphates, 356,926 tons of potassium materials including the potassium nitrate and potassium-sodium nitrate salts, and 877,487 tons of secondary and trace element materials. The consumption of these classes are shown, by States and regions, in Tables 4 and 5.

The principal changes in the national consumption from 1951-52 in chemical nitrogen materials were the increases in ammonium nitrate-limestone mixtures, 162,328 tons (63.0 percent); anhydrous ammonia, 48,909 tons (29.1 percent); and calcium cyanamide, 39,985 tons (94.6 percent). Sodium nitrate decreased 34,278 tons (5.0 percent). Of the phosphate materials, basic slag decreased 90,237 tons (23.0 percent)

and normal superphosphates, 177,463 tons (14.5 percent) while the ammonium phosphates increased 30,911 tons (13.2 percent) and triple superphosphates, 23,791 tons (10.6 percent). In potassium materials, the 60 percent grade of potassium chloride increased 48,179 tons (38.8 percent) while the 50 percent grade decreased 12,290 tons (10.0 percent).

The weighted average primary nutrient content of the principal classes of materials consumed is given, by States, in Table 7. These averages are based on the composition and amount of the individual material coming within the class. The data show the average quality of the materials composing the class. The national nutrient average, in percent, of materials that contain only nitrogen was 28.54; those containing only P_2O_5 14.48 (available P_2O_5); only K_2O , 51.89; and those having more than one nutrient 21.96. The corresponding averages for these classes in 1951-52 were 27.96 (revised), 14.71, 49.98, and 20.97 percent, respectively. With the exception of the class containing only P_2O_5 the national averages for all the other classes in the current year were higher than in 1951-52 reflecting the greater use of higher quality materials. The drop in the average concentration of P_2O_5 materials was the result of the large decrease in consumption of basic slag and normal superphosphates and only a relatively small increase in use of triple superphosphates.

PRIMARY NUTRIENTS

The national consumption of primary nutrients (Table 6) during the year ended June 30, 1953, was nitrogen, 1,637,056; available P_2O_5 , 2,270,750; (total P_2O_5 , 2,767,990); and K_2O , 1,740,210 tons. These quantities represented net increases over 1951-52 in nitrogen of 214,896 tons available P_2O_5 , 71,374 tons; (total P_2O_5 , 87,920 tons); and K_2O , 158,743 tons. Consumption of primary nutrients was, therefore, 15.1, 3.2, (3.4), and 10.0 percent greater than in 1951-52, respectively.

The amounts and proportions of the total quantity of nutrients consumed as mixed fertilizers were 728,095 tons of 44.5 percent of the

| State | West South Central | | | | | | | | | | Total |
|-------------|--------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|
| | 6-10-7 | 6-10-8 | 6-10-9 | 6-10-10 | 6-10-11 | 6-10-12 | 6-10-13 | 6-10-14 | 6-10-15 | 6-10-16 | |
| Arkansas | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| Louisiana | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| Mississippi | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| Texas | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| Total | 4,756 | 4,756 | 4,756 | 4,756 | 4,756 | 4,756 | 4,756 | 4,756 | 4,756 | 4,756 | 47,560 |

| State | West North Central | | | | | | | | | | Total |
|--------------|--------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 6-10-7 | 6-10-8 | 6-10-9 | 6-10-10 | 6-10-11 | 6-10-12 | 6-10-13 | 6-10-14 | 6-10-15 | 6-10-16 | |
| Illinois | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| Indiana | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| Michigan | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| Minnesota | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| Montana | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| Nebraska | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| North Dakota | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| South Dakota | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| Wisconsin | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| Total | 11,840 | 11,840 | 11,840 | 11,840 | 11,840 | 11,840 | 11,840 | 11,840 | 11,840 | 11,840 | 118,400 |

| State | North Atlantic | | | | | | | | | | Total |
|----------------------|----------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 6-10-7 | 6-10-8 | 6-10-9 | 6-10-10 | 6-10-11 | 6-10-12 | 6-10-13 | 6-10-14 | 6-10-15 | 6-10-16 | |
| Delaware | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| District of Columbia | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| Maryland | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| New Jersey | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| New York | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| Pennsylvania | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| Virginia | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| West Virginia | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| Total | 11,840 | 11,840 | 11,840 | 11,840 | 11,840 | 11,840 | 11,840 | 11,840 | 11,840 | 11,840 | 118,400 |

| State | South Atlantic | | | | | | | | | | Total |
|----------------|----------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 6-10-7 | 6-10-8 | 6-10-9 | 6-10-10 | 6-10-11 | 6-10-12 | 6-10-13 | 6-10-14 | 6-10-15 | 6-10-16 | |
| Alabama | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| Florida | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| Georgia | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| South Carolina | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| North Carolina | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| Tennessee | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| Mississippi | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| Alabama | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 1,184 | 11,840 |
| Total | 11,840 | 11,840 | 11,840 | 11,840 | 11,840 | 11,840 | 11,840 | 11,840 | 11,840 | 11,840 | 118,400 |

1/ Each indicator is a 100 percent of the total.

2/ The number of nutrients shown for each State and Region is exclusive of mixtures not specified by grade, although their tonnage are included in the totals.

3/ The total consumption in Hawaii was 16,423 tons of mixed grade, comprising 80 grades, which were manufactured to consumer's specifications.

Table 4. - Principal Fertilizer Materials Consumed as Such, Year Ended June 30, 1953/

| State & Region | Tons | | | | | | | | | | | Total Primary Nutrient Materials | Secondary and Trace Elements/ Materials | | |
|----------------------|-----------------------------|-----------------------|----------------------|-------------------|--------------------|------------------|--------------------|--------------------------------|---|---|--------------------|--|--|---|--------------------|
| | Chemical Nitrogen Materials | | | | | Natural Organics | | Phosphates | | Potash Materials | | | | | |
| | Ammoniacal Nitrate | Ammoniacal Sulfate | Calcium Cyanamide | Sodium Nitrate | Other ² | Dried Manures | Other ³ | Phosphate Rock ³ | Superphosphates 15-20 Percent Grades | Superphosphates 20-30 Percent Grades | Other ⁴ | | | Chlorides 50 & 60 Percent Grades | Other ⁵ |
| Maine | 1,172 | 113 | 120 | 279 | 255 | 621 | 123 | 14 | 8,980 | 0 | 132 | 47 | 72 | 9,948 | 90 |
| New Hampshire | 549 | 35 | 21 | 180 | 70 | 160 | 274 | 12 | 4,622 | 0 | 93 | 95 | 11 | 6,102 | 52 |
| Vermont | 360 | 0 | 2 | 81 | 202 | 80 | 235 | 12 | 12,901 | 0 | 54 | 311 | 37 | 14,293 | 32 |
| Massachusetts | 990 | 70 | 247 | 1,255 | 295 | 2,162 | 4,440 | 181 | 5,901 | 0 | 912 | 748 | 0 | 17,201 | 80 |
| Rhode Island | 160 | 10 | 40 | 149 | 89 | 302 | 673 | 14 | 599 | 0 | 53 | 49 | 2 | 2,150 | 7 |
| Connecticut | 471 | 75 | 46 | 928 | 216 | 1,181 | 15,401 | 164 | 5,008 | 13 | 976 | 1,074 | 1,212 | 26,724 | 1,020 |
| New England | 5,702 | 308 | 476 | 2,552 | 1,127 | 4,478 | 20,961 | 610 | 35,992 | 13 | 2,229 | 2,224 | 1,234 | 76,416 | 1,281 |
| New York | 9,657 | 1,086 | 1,699 | 8,218 | 3,439 | 3,661 | 7,161 | 745 | 103,167 | 286 | 1,020 | 791 | 869 | 141,273 | 750 |
| New Jersey | 5,843 | 246 | 3,121 | 3,385 | 2,127 | 2,609 | 2,631 | 688 | 6,393 | 8 | 744 | 1,165 | 48 | 27,592 | 336 |
| Pennsylvania | 4,638 | 2,454 | 1,713 | 2,870 | 2,911 | 3,509 | 4,810 | 6,906 | 53,355 | 0 | 4,081 | 678 | 386 | 87,930 | 1,451 |
| Delaware | 1,981 | 2 | 129 | 408 | 953 | 377 | 80 | 0 | 868 | 0 | 43 | 93 | 0 | 4,978 | 296 |
| District of Columbia | 0 | 4 | 4 | 79 | 6 | 172 | 278 | 0 | 36 | 0 | 39 | 3 | 0 | 620 | 0 |
| Maryland | 2,036 | 104 | 1,134 | 4,049 | 2,848 | 1,075 | 285 | 2,310 | 8,097 | 10 | 384 | 140 | 448 | 22,197 | 277 |
| West Virginia | 490 | 279 | 18 | 2,973 | 294 | 199 | 98 | 141 | 13,331 | 313 | 35 | 15 | 0 | 17,180 | 2 |
| Middle Atlantic | 22,856 | 4,095 | 7,704 | 20,966 | 12,178 | 12,603 | 16,310 | 10,384 | 185,023 | 564 | 6,326 | 2,276 | 1,219 | 301,590 | 3,112 |
| Virginia | 8,466 | 134 | 963 | 31,719 | 26,107 | 1,016 | 718 | 2,497 | 10,507 | 1,546 | 1,821 | 1,315 | 14,092 | 97,669 | 17,311 |
| North Carolina | 17,938 | 203 | 14,462 | 145,686 | 104,689 | 470 | 1,376 | 1,141 | 26,111 | 1,408 | 8,009 | 11,923 | 11,570 | 342,672 | 31,446 |
| South Carolina | 20,213 | 945 | 1,682 | 93,256 | 78,255 | 312 | 593 | 374 | 32,627 | 60 | 11,480 | 18,576 | 4,159 | 262,701 | 2,036 |
| Georgia | 20,213 | 2,147 | 1,999 | 92,601 | 68,085 | 739 | 1,107 | 1,367 | 34,685 | 566 | 26,278 | 10,946 | 4,261 | 245,662 | 16,936 |
| Florida | 5,027 | 1,908 | 838 | 16,680 | 17,664 | 1,047 | 6,897 | 12,726 | 8,838 | 83 | 6,229 | 1,776 | 16,024 | 99,607 | 3,046 |
| South Atlantic | 73,454 | 8,237 | 19,933 | 376,942 | 274,870 | 3,685 | 10,489 | 18,105 | 112,568 | 3,633 | 54,617 | 44,834 | 30,086 | 1,046,031 | 71,273 |
| Ohio | 11,613 | 5,168 | 2,105 | 1,613 | 18,096 | 1,957 | 9,337 | 11,690 | 20,172 | 2,494 | 646 | 2,168 | 894 | 90,250 | 127 |
| Indiana | 40,722 | 8,206 | 9,233 | 573 | 49,493 | 1,887 | 723 | 1,667 | 27,096 | 16,888 | 3,769 | 172 | 13,460 | 388 | 180,279 |
| Illinois | 29,646 | 31,662 | 1,648 | 410 | 67,717 | 4,463 | 6,849 | 700,835 | 64,646 | 7,328 | 6,304 | 85,274 | 755 | 1,006,074 | 600 |
| Michigan | 10,013 | 8,102 | 387 | 1,079 | 8,010 | 2,011 | 8,808 | 3,802 | 18,021 | 221 | 1,876 | 942 | 9 | 63,991 | 541 |
| Wisconsin | 10,920 | 784 | 110 | 3 | 1,114 | 719 | 4,206 | 16,906 | 2,639 | 79 | 111 | 3,945 | 318 | 41,763 | 114 |
| East North Central | 102,744 | 23,741 | 13,481 | 3,878 | 145,329 | 9,273 | 29,637 | 770,522 | 122,566 | 14,897 | 9,199 | 106,789 | 2,074 | 1,264,367 | 1,249 |
| Minnesota | 6,097 | 1,615 | 161 | 0 | 4,460 | 816 | 6,619 | 7,713 | 10,396 | 20,619 | 1,271 | 787 | 0 | 59,342 | 1,820 |
| Iowa | 31,498 | 15,399 | 274 | 0 | 18,902 | 247 | 1,628 | 24,772 | 88,966 | 6,983 | 20,302 | 4,993 | 11 | 163,836 | 82 |
| Missouri | 33,706 | 7,802 | 20 | 256 | 27,638 | 637 | 2,032 | 283,486 | 11,096 | 4,692 | 5,410 | 17,227 | 856 | 364,592 | 3 |
| North Dakota | 210 | 15 | 140 | 0 | 23 | 0 | 30 | 341 | 17,182 | 3,328 | 2 | 0 | 0 | 21,351 | 207 |
| South Dakota | 2,230 | 276 | 0 | 0 | 474 | 25 | 80 | 450 | 2,265 | 2,143 | 857 | 2 | 0 | 8,302 | 0 |
| Nebraska | 28,625 | 12,061 | 1 | 0 | 29,437 | 808 | 770 | 1,378 | 7,149 | 10,085 | 6,377 | 81 | 0 | 96,374 | 99 |
| Kansas | 23,695 | 7,948 | 1 | 24 | 14,264 | 277 | 330 | 9,446 | 10,258 | 29,636 | 32,268 | 716 | 0 | 122,878 | 0 |
| West North Central | 128,220 | 44,601 | 697 | 280 | 95,108 | 2,709 | 10,490 | 287,478 | 100,360 | 91,345 | 69,335 | 23,798 | 669 | 865,343 | 1,904 |
| Kentucky | 31,062 | 1,697 | 3,314 | 4,063 | 4,036 | 359 | 141 | 14,248 | 83,731 | 11,044 | 8,427 | 5,331 | 9,261 | 186,595 | 26 |
| Tennessee | 61,313 | 543 | 1,909 | 20,992 | 15,895 | 636 | 680 | 903 | 27,170 | 12,341 | 18,478 | 11,190 | 5,039 | 162,087 | 218 |
| Alabama | 68,688 | 918 | 392 | 99,600 | 23,320 | 394 | 180 | 8,104 | 50,831 | 1,777 | 168,848 | 9,869 | 1,162 | 411,163 | 610 |
| Mississippi | 128,643 | 23,367 | 11,245 | 56,286 | 41,014 | 32 | 30 | 7,468 | 40,431 | 2,780 | 71,474 | 19,902 | 134 | 600,896 | 17 |
| East South Central | 289,896 | 26,415 | 16,680 | 179,231 | 82,262 | 1,421 | 1,041 | 27,723 | 182,163 | 27,842 | 267,227 | 46,282 | 11,576 | 1,129,739 | 868 |
| Arkansas | 34,795 | 8,391 | 15,476 | 20,682 | 13,421 | 63 | 56 | 1,595 | 29,525 | 3,472 | 3,997 | 28,276 | 1,149 | 169,096 | 6 |
| Louisiana | 25,936 | 6,649 | 1,070 | 27,128 | 23,892 | 206 | 123 | 4,310 | 19,190 | 2,385 | 19,215 | 7,649 | 109 | 128,161 | 561 |
| Oklahoma | 7,666 | 3,066 | 0 | 339 | 1,007 | 679 | 318 | 21,059 | 36,723 | 3,727 | 8,817 | 5,024 | 74 | 86,396 | 100 |
| Texas | 28,942 | 32,400 | 2,778 | 2,854 | 22,842 | 1,667 | 3,255 | 20,090 | 87,161 | 22,944 | 69,616 | 1,236 | 36 | 283,020 | 4,286 |
| West South Central | 94,237 | 51,886 | 17,824 | 60,803 | 60,872 | 2,634 | 3,748 | 47,044 | 172,599 | 32,528 | 91,645 | 40,085 | 1,347 | 676,672 | 4,953 |
| Montana | 2,820 | 2,841 | 0 | 0 | 40 | 0 | 39 | 0 | 180 | 12,649 | 1,200 | 18 | 0 | 21,534 | 570 |
| Idaho | 9,619 | 17,693 | 278 | 3 | 502 | 33 | 80 | 100 | 12,450 | 9,943 | 4,184 | 62 | 0 | 44,937 | 4,719 |
| Wyoming | 1,460 | 751 | 0 | 0 | 192 | 10 | 0 | 80 | 1,396 | 4,262 | 0 | 0 | 0 | 8,609 | 320 |
| Colorado | 8,557 | 2,997 | 0 | 40 | 1,723 | 10 | 668 | 206 | 4,104 | 11,719 | 1,819 | 174 | 3 | 29,060 | 622 |
| New Mexico | 2,087 | 2,391 | 0 | 11 | 4,093 | 1 | 180 | 0 | 1,762 | 8,996 | 5,629 | 2 | 0 | 24,942 | 1,206 |
| Arizona | 15,108 | 19,080 | 683 | 1,307 | 30,966 | 2,322 | 347 | 0 | 4,199 | 4,208 | 16,688 | 6 | 272 | 94,051 | 32,398 |
| Utah | 4,601 | 13,906 | 0 | 0 | 44 | 110 | 80 | 0 | 5,935 | 2,634 | 1,969 | 72 | 10 | 26,211 | 399 |
| Nevada | 98 | 399 | 0 | 172 | 67 | 82 | 18 | 40 | 252 | 618 | 1,140 | 1 | 0 | 2,214 | 7,399 |
| Mountain | 40,146 | 60,888 | 761 | 1,633 | 37,617 | 2,615 | 1,273 | 396 | 28,319 | 56,014 | 34,929 | 340 | 286 | 245,098 | 26,625 |
| Washington | 20,474 | 15,745 | 94 | 342 | 17,297 | 1,747 | 3,649 | 690 | 12,240 | 5,047 | 9,126 | 2,744 | 106 | 86,301 | 6,888 |
| Oregon | 22,068 | 41,238 | 792 | 8 | 10,339 | 430 | 666 | 860 | 19,797 | 3,336 | 15,367 | 1,357 | 90 | 115,087 | 13,442 |
| California | 71,302 | 167,542 | 3,964 | 499 | 128,269 | 166,724 | 54,416 | 2,289 | 71,295 | 14,295 | 90,722 | 1,032 | 4,166 | 766,292 | 746,960 |
| Pacific | 118,864 | 216,226 | 4,970 | 848 | 156,884 | 167,901 | 56,731 | 3,529 | 103,330 | 21,678 | 104,236 | 5,133 | 4,362 | 956,690 | 786,130 |
| Continental U. S. | 846,100 | 461,274 | 82,806 | 647,233 | 868,065 | 207,115 | 161,910 | 1,176,795 | 1,042,719 | 246,602 | 630,260 | 272,460 | 73,172 | 6,703,978 | 877,936 |
| Hawaii | 0 | 28,664 | 0 | 167 | 10,189 | 12 | 0 | 1,187 | 4,038 | 0 | 5,491 | 9,670 | 1,282 | 70,807 | 92 |
| Puerto Rico | 0 | 34,811 | 13 | 0 | 1,401 | 0 | 0 | 0 | 73 | 21 | 1,204 | 66 | 7 | 37,696 | 0 |
| Alaska | 183 | 13 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 227 | 61 | 70 | 0 | 517 |
| Territories | 182 | 73,478 | 13 | 180 | 11,541 | 12 | 0 | 1,187 | 4,108 | 248 | 6,746 | 10,005 | 1,289 | 106,919 | 82 |
| Total: 1952-53 | 846,282 | 484,749 | 82,819 | 647,400 | 878,696 | 207,127 | 161,910 | 1,178,982 | 1,046,827 | 248,850 | 630,296 | 282,465 | 74,461 | 6,812,897 | 877,467 |
| 1951-52 | 799,189 | 466,817 | 42,254 | 681,761 | 872,903 | 199,728 | 146,069 | 1,160,020 | 1,224,290 | 225,069 | 704,787 | 248,378 | 73,548 | 6,661,019 | 786,000 |
| 1950-51 | 636,376 | 461,601 | 64,222 | 683,867 | 456,811 | 185,450 | 135,429 | 1,039,864 | 1,283,977 | 239,725 | 577,701 | 189,858 | 61,982 | 6,366,743 | 846,249 |

1/ Includes materials distributed by Government agencies. Excludes lime and materials used by manufacturers in the formulation of commercial mixtures.
 2/ The principal commodities are shown in Table 5, by regions.
 3/ Includes colloidal phosphate, the quantity of which is shown separately, by regions, in Table 5.
 4/ Estimated.

nitrogen, 1,782,286 tons (78.5 percent) of the available P_2O_5 , 1,920,472 tons (69.4 percent) of the total P_2O_5 , and 1,554,001 tons (89.3 percent) of the K_2O . In 1952-53, the amounts consumed in mixed fertilizers were nitrogen, 12.3 percent; available P_2O_5 , 6.0 percent; total P_2O_5 , 6.3 percent; and K_2O , 9.4 percent greater than in 1951-52. While the amounts of nutrients consumed in materials

were 17.4 and 15.6 percent greater for nitrogen and K_2O , respectively, they were 5.8 and 2.8 percent less for available P_2O_5 and total P_2O_5 , respectively, than in 1951-52. Total primary nutrients consumed in 1951-52 and in 1952-53 were 5,203,003 tons (revised) and 5,648,016 tons, respectively, an increase of 445,013 tons or 8.6 percent in comparison with the increase of 4.1 percent for

tonnage of fertilizers containing these nutrients. This reflects the trend toward higher analysis fertilizers as evidenced by consumption surveys made over the past ten years, and, as diagrammatically shown in figure 1. The spread between the curves representing consumption of fertilizers containing primary nutrients and of that representing the nutrient content of

Table 2. - Kinds of Fertilizers Consumed in Regions of the United States, in Tons, During Year Ended June 30, 1955¹

| Kinds | New England | Middle Atlantic | South Atlantic | East North Central | West North Central | East South Central | West South Central | Mountain | Pacific | Territories | Total |
|--|-------------|-----------------|----------------|--------------------|--------------------|--------------------|--------------------|----------|-----------|-------------|------------|
| MIXED GRADES: | | | | | | | | | | | |
| N-P-K | 344,021 | 1,072,986 | 4,728,865 | 3,381,469 | 913,318 | 1,870,707 | 682,056 | 27,893 | 239,645 | 246,878 | 14,079,918 |
| N-P | 92 | 137 | 990 | 777 | 240,098 | 384 | 21,257 | 43,173 | 55,403 | 3,380 | 363,891 |
| P-K | 49,463 | 140,914 | 260,875 | 330,866 | 78,602 | 186,960 | 47,441 | 200 | 3,088 | 2,234 | 1,097,633 |
| N-K | --- | 7 | 161,441 | 1,884 | 311 | 883 | --- | 45 | 3,151 | 13,780 | 181,182 |
| CHEMICAL NITROGEN MATERIALS | | | | | | | | | | | |
| Ammonia, anhydrous | (2/) | (2/) | (2/) | (2/) | (2/) | (2/) | (2/) | (2/) | (2/) | (2/) | 217,182 |
| Ammonium nitrate | 3,702 | 22,366 | 75,434 | 102,744 | 128,920 | 269,696 | 94,337 | 40,148 | 115,664 | 162 | 846,262 |
| Ammonium nitrate-limestone mixtures | 304 | 5,041 | 245,787 | 78,987 | 37,629 | 46,679 | 7,414 | --- | 24 | --- | 419,846 |
| Ammonium sulfate | 303 | 4,095 | 6,337 | 83,741 | 44,601 | 28,415 | 81,586 | 60,888 | 214,325 | 73,478 | 634,749 |
| Calcium cyanamide | 476 | 7,704 | 19,933 | 13,481 | 597 | 18,860 | 17,824 | 761 | 4,870 | 13 | 82,219 |
| Calcium nitrate | --- | --- | 10,706 | --- | 48 | 35 | --- | 4,689 | 32,474 | 32 | 47,980 |
| Nitrogen solutions: 16-41% N ^{3/} | --- | 680 | 2,355 | 11,089 | 9,181 | 84 | 3,070 | 6,165 | 40,313 | --- | 72,917 |
| Sodium nitrate | 2,852 | 20,958 | 376,942 | 3,878 | 280 | 179,231 | 60,803 | 1,633 | 848 | 160 | 847,485 |
| Other ^{4/} | 833 | 6,486 | 16,943 | 57,273 | 48,253 | 35,464 | 50,388 | 26,763 | 83,073 | 11,609 | 5/ 118,672 |
| NATURAL ORGANICS | | | | | | | | | | | |
| Blood, dried | --- | 245 | 37 | 119 | --- | --- | --- | 11 | 1,287 | --- | 1,699 |
| Castor pomace | 3,061 | 20 | 2,309 | --- | --- | --- | --- | --- | 1,620 | --- | 6,980 |
| Compost | 276 | 443 | 772 | 645 | 4,038 | --- | 1,748 | --- | 4 | --- | 7,928 |
| Cottonseed meal ^{6/} | 10,992 | 48 | 1,386 | --- | --- | --- | 3 | --- | 36 | --- | 12,462 |
| Fish scrap, meal, and emulsions | 534 | 8 | --- | --- | --- | --- | --- | --- | 1,286 | --- | 1,828 |
| Hoop and horn meal | 72 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 72 |
| Manures, dried | 4,476 | 12,603 | 3,583 | 9,273 | 2,709 | 1,421 | 2,634 | 2,616 | 167,901 | 12 | 207,127 |
| Sewage sludge, activated | 3,804 | 8,677 | 4,239 | 28,938 | 5,951 | 1,036 | 1,997 | 1,282 | 14,027 | --- | 68,931 |
| Sewage sludge, other | --- | 63 | --- | --- | 801 | --- | --- | --- | 37,967 | --- | 38,531 |
| Tankage, animal | --- | 593 | 193 | --- | --- | --- | --- | --- | 1,041 | --- | 1,827 |
| Tankage, garbage | --- | --- | 1 | --- | --- | --- | --- | --- | 1,800 | --- | 1,801 |
| Tankage, process | 1,404 | 8,209 | 1,156 | 265 | --- | 5 | --- | --- | 3 | --- | 8,044 |
| Other ^{7/} | 628 | 7 | 314 | --- | --- | --- | --- | --- | 360 | --- | 1,809 |
| PHOSPHORUS MATERIALS | | | | | | | | | | | |
| Ammonium phosphate: 11-48 | --- | 5 | --- | 120 | 3,697 | --- | --- | 1,718 | 5,958 | 4,144 | 16,640 |
| " 16-20 | --- | --- | 1 | 3,061 | 42,202 | 63 | 68,206 | 26,617 | 68,990 | 1,442 | 210,882 |
| " 13-39 | --- | --- | 16 | 40 | 19,069 | --- | 7,635 | 2,106 | 9,691 | --- | 38,546 |
| Ammoniated superphosphate | --- | --- | 458 | --- | --- | --- | 273 | --- | 6,915 | 1,166 | 8,701 |
| Basic lime phosphate | --- | --- | 112 | --- | --- | --- | --- | --- | --- | --- | 112 |
| Basic slag | --- | 2,914 | 46,858 | --- | --- | 234,914 | 14,861 | --- | --- | --- | 301,637 |
| Bonemeal, raw | 166 | 716 | 635 | 63 | 9 | --- | 114 | --- | 1,224 | --- | 2,953 |
| Bonemeal, steamed | 1,670 | 2,691 | 607 | 1,334 | 70 | 628 | 101 | --- | 1,366 | 6 | 8,372 |
| Calcium metaphosphate | --- | --- | 2,222 | 3,308 | 4,393 | 7,124 | 408 | 27 | 196 | --- | 17,678 |
| Fused tricalcium phosphate | --- | --- | 1,708 | 1,253 | 403 | 14,692 | --- | --- | --- | --- | 17,986 |
| Phosphoric acid: 16-63% P ₂ O ₅ | --- | --- | --- | --- | --- | --- | 57 | 4,464 | 9,995 | --- | 14,516 |
| Phosphate rock | 610 | 8,756 | 18,166 | 786,894 | 289,783 | 14,281 | 46,672 | 356 | 3,339 | 1,167 | 1,135,993 |
| Colloidal phosphate | --- | 1,629 | 2,949 | 13,836 | 8,712 | 13,442 | 372 | 40 | 190 | --- | 60,999 |
| Precipitated bone | 403 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 403 |
| Superphosphate: 18% | 1,763 | 23,783 | 54,459 | 38,344 | 16,899 | 40,166 | 55 | 2,807 | 60,982 | --- | 239,217 |
| " 19% | 1,021 | 1 | 1,782 | 8 | 3,361 | 1,666 | 178 | 23,466 | 42,371 | --- | 73,859 |
| " 20% | 33,207 | 161,259 | 56,127 | 44,217 | 80,100 | 140,343 | 172,366 | 2,067 | 7 | 4,106 | 733,771 |
| " 30-38% | --- | 10 | --- | 101 | 2,782 | --- | 6,310 | 938 | 4 | --- | 10,146 |
| " 42% | --- | --- | --- | --- | 34,044 | --- | --- | 37,368 | 10,326 | --- | 81,738 |
| " 43-44% | --- | --- | --- | 20 | --- | --- | --- | --- | 1,377 | --- | 1,488 |
| " 46% | 4 | 306 | 5 | 3,988 | 29,132 | 10,143 | 21,363 | 9,794 | 1,947 | 21 | 76,653 |
| " 47% | --- | --- | --- | 2,161 | 13,124 | 2,132 | 1,976 | 4,771 | 4,174 | 237 | 28,688 |
| " 48% | 9 | 248 | 1,334 | 8,107 | 6,960 | 8,254 | 1,569 | 2,375 | 3,850 | --- | 32,688 |
| " 49-50% | --- | --- | 888 | 300 | 2,703 | 7,245 | 1,290 | 768 | --- | --- | 13,194 |
| " 49-50% | --- | --- | 1,406 | 270 | 2,520 | 168 | 30 | --- | --- | --- | 4,394 |
| POTASSIUM MATERIALS | | | | | | | | | | | |
| Cotton hull ashes | 595 | --- | 5 | --- | --- | --- | --- | --- | --- | --- | 600 |
| Lime-potash mixtures: 5-10% ^{8/} | --- | 355 | 22,939 | --- | --- | 1,046 | --- | --- | --- | --- | 24,340 |
| Manure salts: 21-40% | --- | 8 | 2,960 | 411 | 585 | 30 | 610 | --- | --- | --- | 4,404 |
| Potassium carbonate | --- | --- | 153 | --- | --- | --- | --- | --- | --- | --- | 153 |
| Potassium chloride: 80% | 76 | 622 | 34,422 | 33,982 | 608 | 19,489 | 20,719 | 76 | 363 | --- | 110,286 |
| " 50% | 2,249 | 2,363 | 10,412 | 72,907 | 23,190 | 26,793 | 19,366 | 266 | 4,770 | 10,006 | 172,210 |
| " magnesium sulfate | 187 | 146 | 1,941 | 1,202 | 434 | 891 | 609 | --- | 14 | 323 | 6,777 |
| " nitrate | 161 | 26 | 8,304 | --- | --- | 48 | --- | --- | --- | --- | 8,539 |
| " phosphate ash ^{9/} | --- | --- | 8 | --- | --- | --- | --- | --- | --- | --- | 8 |
| " sodium nitrate | 74 | --- | 1,685 | --- | --- | 14 | --- | 187 | --- | --- | 1,960 |
| " sulfate | 337 | 675 | 5,570 | 452 | --- | 9,647 | 148 | 98 | 4,348 | 966 | 32,141 |
| Tobacco stems | --- | 9 | 1,103 | 9 | --- | --- | --- | --- | --- | --- | 1,121 |
| Wood ashes | --- | --- | 5,418 | --- | --- | --- | --- | --- | --- | --- | 5,418 |
| TOTAL PRIMARY NUTRIENT FERTILIZERS | 469,984 | 2,116,634 | 6,200,202 | 5,099,353 | 2,092,612 | 3,166,373 | 1,397,406 | 336,409 | 1,287,957 | 377,191 | 22,636,121 |
| SECONDARY & TRACE ELEMENT MATERIALS^{10/} | | | | | | | | | | | |
| Aluminum sulfate | 4 | 11 | 1 | --- | --- | 2 | --- | --- | --- | --- | 18 |
| Borax | 60 | 210 | 227 | 176 | 5 | 285 | 7 | 4 | 223 | --- | 1,197 |
| Calcium sulfate (gypsum) | 1,097 | 2,530 | 66,618 | 771 | 1,890 | 376 | 680 | 28,801 | 737,680 | --- | 837,422 |
| Copper sulfate | 32 | 148 | --- | 120 | --- | 1 | --- | 1 | 27 | --- | 529 |
| Ferrous sulfate | --- | --- | --- | 81 | --- | --- | --- | 12 | --- | --- | 78 |
| Magnesium carbonate | --- | --- | --- | --- | --- | --- | --- | --- | 5,385 | --- | 5,385 |
| Magnesium sulfate | 49 | 80 | 1 | 26 | --- | --- | --- | --- | --- | 13 | 139 |
| Manganese sulfate | 11 | 67 | 127 | 60 | 2 | --- | --- | 1 | 34 | --- | 308 |
| Sulfur: 26-99% ^{11/} | 3 | 75 | 173 | 1 | 3 | --- | 4,269 | 2,782 | 18,423 | --- | 25,699 |
| Sulfuric acid: 40-93% | --- | --- | --- | --- | --- | --- | --- | --- | 3,840 | --- | 3,840 |
| Zinc sulfate | --- | 2 | 29 | 9 | --- | 24 | --- | 4 | 66 | 79 | 213 |
| Minerals not classified | 28 | 19 | 2,097 | 25 | 4 | 191 | 27 | 40 | 2,952 | --- | 5,370 |
| Total Sec. & Trace Elem. Mat. | 1,291 | 3,112 | 71,273 | 1,249 | 1,904 | 868 | 4,953 | 26,628 | 766,150 | 92 | 877,487 |
| TOTAL ALL FERTILIZERS | 471,265 | 2,119,746 | 6,271,475 | 5,100,602 | 2,094,516 | 3,189,241 | 1,402,359 | 363,034 | 1,284,087 | 377,283 | 23,513,608 |

- 1/ Includes distribution by Government agencies. Does not include the quantities of materials used for manufacture of commercial mixtures.
2/ Included with "Other Chemical Nitrogen Materials." Regional data cannot be published without disclosing operations of individual suppliers.
3/ Includes aqua ammonia.
4/ Anhydrous ammonia, ammonium sulfate-nitrate, urea, and chemical nitrogen materials not classified.
5/ Does not include above total for anhydrous ammonia.
6/ Includes materials distributed by other than manufacturers of fertilizers.
7/ Seed and nut meals: Linseed (665), Peanut (60), Soybean (168), Tung (264), Other (360), and organics not classified 7 tons.
8/ Includes cement flue dust. Additional quantities are given free to farmers for which no records are kept.
9/ May have been classified in reports as a mixture-supply less than 2,200 tons.

Table 6. - Consumption of Primary Plant Nutrients in Fertilizers, Year Ended June 30, 1953^{1/}

| State & Region | In Mixtures | | | | | In All Fertilizers | | | | |
|----------------------|-------------|-------------------------------|-----------|------------------|--|--------------------|-------------------------------|---------------------|------------------|--|
| | Nitrogen | P ₂ O ₅ | | K ₂ O | Total N, Avail. P ₂ O ₅ , & K ₂ O | Nitrogen | P ₂ O ₅ | | K ₂ O | Total N, Avail. P ₂ O ₅ , & K ₂ O |
| | | Available | Total | | | | Available ^{2/} | Total ^{3/} | | |
| Maine | 12,756 | 21,776 | 22,757 | 25,989 | 60,471 | 13,369 | 23,222 | 24,235 | 26,040 | 62,631 |
| New Hampshire | 893 | 1,932 | 2,037 | 2,265 | 4,790 | 853 | 2,927 | 3,075 | 2,331 | 6,111 |
| Vermont | 1,101 | 4,186 | 4,356 | 6,046 | 11,332 | 1,299 | 6,985 | 7,346 | 6,246 | 14,430 |
| Massachusetts | 3,741 | 6,539 | 6,933 | 6,640 | 16,920 | 4,337 | 8,151 | 8,553 | 7,167 | 20,135 |
| Rhode Island | 706 | 1,314 | 1,393 | 1,367 | 3,386 | 889 | 1,474 | 1,663 | 1,407 | 3,760 |
| Connecticut | 3,299 | 6,201 | 6,536 | 6,979 | 14,379 | 4,775 | 6,977 | 7,432 | 7,225 | 18,977 |
| New England | 22,176 | 40,947 | 42,911 | 48,156 | 111,278 | 26,002 | 49,616 | 52,184 | 50,416 | 126,034 |
| New York | 27,817 | 66,975 | 61,493 | 45,814 | 132,505 | 34,637 | 80,444 | 84,132 | 48,563 | 161,644 |
| New Jersey | 12,698 | 26,409 | 27,742 | 24,860 | 65,967 | 16,344 | 27,994 | 29,515 | 25,645 | 69,973 |
| Pennsylvania | 24,156 | 75,556 | 76,555 | 69,870 | 159,661 | 30,479 | 85,614 | 90,761 | 60,545 | 176,658 |
| Delaware | 3,363 | 9,262 | 9,766 | 9,276 | 22,451 | 5,030 | 9,612 | 9,920 | 9,343 | 23,655 |
| District of Columbia | 111 | 203 | 207 | 123 | 437 | 229 | 234 | 234 | 131 | 508 |
| Maryland | 11,308 | 32,096 | 34,140 | 25,990 | 69,292 | 15,710 | 33,942 | 36,679 | 26,042 | 73,694 |
| West Virginia | 2,228 | 9,119 | 9,822 | 6,715 | 18,062 | 2,861 | 12,065 | 12,933 | 8,730 | 21,646 |
| Middle Atlantic | 64,070 | 209,719 | 219,725 | 172,538 | 466,327 | 103,209 | 249,780 | 264,174 | 174,999 | 527,988 |
| Virginia | 23,104 | 64,018 | 69,511 | 71,517 | 178,639 | 34,707 | 87,887 | 94,189 | 73,319 | 197,913 |
| North Carolina | 58,145 | 146,066 | 169,467 | 125,557 | 331,758 | 113,097 | 165,038 | 166,955 | 133,561 | 401,706 |
| South Carolina | 26,632 | 70,451 | 75,631 | 57,215 | 164,278 | 65,253 | 77,963 | 83,699 | 69,594 | 211,910 |
| Georgia | 46,399 | 102,757 | 119,246 | 92,651 | 240,747 | 81,494 | 112,953 | 130,321 | 99,401 | 293,838 |
| Florida | 66,399 | 73,821 | 89,078 | 85,077 | 211,997 | 66,609 | 76,596 | 95,809 | 88,576 | 231,781 |
| South Atlantic | 209,679 | 478,783 | 532,922 | 429,967 | 1,117,419 | 363,140 | 510,437 | 570,963 | 463,471 | 1,337,048 |
| Ohio | 36,283 | 134,744 | 144,446 | 129,467 | 302,464 | 60,605 | 141,167 | 164,498 | 130,924 | 322,696 |
| Indiana | 36,706 | 132,700 | 141,686 | 140,963 | 312,358 | 68,532 | 139,099 | 158,897 | 148,921 | 356,552 |
| Illinois | 29,199 | 81,422 | 87,039 | 93,619 | 204,240 | 74,869 | 120,916 | 132,492 | 144,465 | 340,250 |
| Michigan | 19,181 | 78,889 | 83,948 | 75,670 | 173,710 | 27,627 | 83,863 | 90,182 | 76,297 | 187,787 |
| Wisconsin | 12,273 | 53,172 | 56,606 | 61,707 | 127,152 | 17,070 | 64,460 | 62,786 | 64,062 | 135,592 |
| East North Central | 137,621 | 460,897 | 513,693 | 601,406 | 1,119,924 | 238,703 | 639,605 | 795,854 | 564,669 | 1,342,877 |
| Minnesota | 8,951 | 40,227 | 42,138 | 29,240 | 78,418 | 13,663 | 62,891 | 57,641 | 29,774 | 96,228 |
| Iowa | 20,466 | 62,245 | 66,075 | 31,535 | 118,256 | 44,612 | 84,151 | 94,709 | 35,503 | 164,266 |
| Missouri | 28,693 | 72,488 | 77,827 | 46,486 | 149,657 | 56,268 | 86,095 | 164,889 | 89,146 | 201,609 |
| North Dakota | 1,074 | 4,867 | 5,112 | 1,436 | 7,377 | 1,614 | 14,088 | 14,696 | 1,437 | 17,139 |
| South Dakota | 745 | 1,709 | 1,832 | 140 | 2,594 | 1,985 | 3,352 | 3,568 | 142 | 5,499 |
| Nebraska | 6,425 | 10,186 | 10,293 | 1,016 | 16,627 | 31,850 | 17,803 | 18,494 | 1,072 | 80,725 |
| Kansas | 10,023 | 22,984 | 24,334 | 5,376 | 33,383 | 30,437 | 47,391 | 51,574 | 6,516 | 83,644 |
| West North Central | 76,377 | 214,716 | 226,611 | 118,199 | 408,292 | 180,329 | 305,781 | 405,961 | 132,890 | 619,000 |
| Kentucky | 16,046 | 50,359 | 55,261 | 44,956 | 113,261 | 31,423 | 72,418 | 82,049 | 51,881 | 155,722 |
| Tennessee | 16,960 | 46,556 | 50,257 | 39,630 | 103,146 | 43,140 | 61,986 | 66,486 | 47,142 | 152,268 |
| Alabama | 35,733 | 84,623 | 91,268 | 63,516 | 183,771 | 77,374 | 111,418 | 122,128 | 69,404 | 268,193 |
| Mississippi | 19,153 | 31,955 | 34,466 | 24,077 | 76,196 | 105,741 | 48,822 | 54,412 | 34,761 | 167,344 |
| East South Central | 89,892 | 213,403 | 231,234 | 172,078 | 476,373 | 265,678 | 294,641 | 328,076 | 203,208 | 753,627 |
| Arkansas | 10,444 | 20,889 | 22,354 | 23,461 | 54,794 | 42,083 | 29,696 | 31,721 | 39,332 | 111,011 |
| Louisiana | 10,754 | 20,524 | 21,866 | 15,608 | 47,096 | 41,195 | 26,156 | 31,139 | 19,982 | 89,312 |
| Oklahoma | 3,612 | 6,000 | 6,462 | 3,493 | 15,008 | 8,761 | 20,433 | 27,317 | 6,318 | 34,609 |
| Texas | 16,287 | 34,724 | 36,828 | 16,814 | 69,626 | 59,006 | 76,962 | 84,758 | 19,637 | 154,606 |
| West South Central | 40,897 | 84,137 | 89,300 | 61,676 | 186,710 | 181,046 | 164,126 | 174,915 | 84,266 | 389,437 |
| Montana | 376 | 801 | 893 | 40 | 1,217 | 2,699 | 6,689 | 7,201 | 49 | 9,337 |
| Idaho | 1,664 | 1,869 | 1,997 | 268 | 3,691 | 9,460 | 9,863 | 12,983 | 297 | 19,620 |
| Wyoming | 348 | 673 | 708 | 49 | 1,070 | 1,159 | 2,969 | 3,082 | 84 | 4,182 |
| Colorado | 1,850 | 3,893 | 3,991 | 796 | 6,547 | 5,782 | 10,973 | 11,273 | 900 | 17,635 |
| New Mexico | 237 | 341 | 362 | 60 | 634 | 4,408 | 6,188 | 6,311 | 62 | 10,658 |
| Arizona | 2,666 | 3,497 | 3,671 | 582 | 6,745 | 29,627 | 11,608 | 11,869 | 704 | 41,839 |
| Utah | 262 | 496 | 524 | 107 | 867 | 5,022 | 3,341 | 3,440 | 168 | 8,521 |
| Nevada | 64 | 86 | 91 | 34 | 174 | 409 | 632 | 667 | 37 | 1,076 |
| Mountain | 7,365 | 11,688 | 12,237 | 1,926 | 20,949 | 56,346 | 52,263 | 56,826 | 2,261 | 112,870 |
| Washington | 2,211 | 3,858 | 4,016 | 2,954 | 9,023 | 25,363 | 10,827 | 11,428 | 4,726 | 40,916 |
| Oregon | 1,708 | 2,589 | 2,802 | 1,578 | 6,673 | 24,427 | 11,305 | 12,047 | 2,458 | 38,160 |
| California | 26,976 | 25,172 | 26,539 | 14,027 | 66,176 | 167,592 | 72,548 | 76,170 | 20,687 | 250,827 |
| Pacific | 30,895 | 31,619 | 33,366 | 16,567 | 91,071 | 207,362 | 94,680 | 99,646 | 27,641 | 329,903 |
| Continental U. S. | 697,071 | 1,766,879 | 1,901,989 | 1,524,393 | 3,987,343 | 1,583,834 | 2,250,829 | 2,745,587 | 1,704,021 | 5,538,684 |
| Hawaii | 6,164 | 4,987 | 5,467 | 9,433 | 20,584 | 19,928 | 8,162 | 9,045 | 16,929 | 44,017 |
| Puerto Rico | 26,948 | 11,397 | 12,993 | 20,161 | 66,406 | 33,223 | 11,612 | 13,212 | 20,204 | 65,042 |
| Alaska | 12 | 23 | 23 | 14 | 49 | 74 | 143 | 144 | 66 | 275 |
| Territories | 31,024 | 16,407 | 18,483 | 29,608 | 77,039 | 63,222 | 19,921 | 22,403 | 36,189 | 106,332 |
| Total: 1952-53 | 728,095 | 1,782,286 | 1,920,472 | 1,554,001 | 4,064,882 | 1,637,066 | 2,270,760 | 2,767,990 | 1,740,210 | 5,448,018 |
| 1951-52 | 646,223 | 1,680,706 | 1,806,523 | 1,420,386 | 3,749,323 | 1,422,160 | 2,199,376 | 2,676,070 | 1,581,467 | 5,203,003 |
| 1950-51 | 583,989 | 1,541,863 | 1,667,426 | 1,284,927 | 3,380,749 | 1,236,977 | 2,109,900 | 2,536,988 | 1,379,613 | 4,726,490 |

^{1/} Includes Government distribution.^{2/} Includes, as available P₂O₅, 2 percent of the colloidal phosphate and 3 percent of the phosphate rock marketed for direct application.^{3/} Includes, as total P₂O₅, 22 percent of the colloidal phosphate and 32 percent of the phosphate rock marketed for direct application.

Revised.

Table 7. - Weighted Average Content of Primary Plant Nutrients in Fertilizers, in Percent, Year Ended June 30, 1953^{1/}

| State & Region | Mixtures ^{2/} | | | | Materials | | | | | Total Nutrients in Mixtures and Materials |
|----------------------|------------------------|---|------------------|-----------------|-------------------------------|---|------------------|----------------------------------|-----------------|---|
| | N | Available P ₂ O ₅ | K ₂ O | Total Nutrients | Single Nutrient ^{3/} | | | Multiple Nutrients ^{2/} | Total Nutrients | |
| | | | | | N | Available P ₂ O ₅ ^{4/} | K ₂ O | | | |
| Maine | 6.32 | 10.81 | 12.89 | 30.02 | 30.47 | 20.01 | 50.64 | 11.22 | 21.71 | 29.63 |
| New Hampshire | 3.88 | 12.63 | 14.80 | 31.31 | 27.84 | 20.74 | 57.55 | 11.60 | 21.65 | 28.55 |
| Vermont | 3.10 | 11.81 | 17.06 | 31.97 | 29.51 | 20.47 | 56.90 | 11.61 | 21.67 | 29.01 |
| Massachusetts | 5.49 | 9.60 | 9.75 | 24.84 | 22.14 | 20.19 | 59.68 | 10.99 | 18.69 | 23.61 |
| Rhode Island | 5.28 | 9.84 | 10.24 | 25.36 | 19.40 | 19.25 | 56.70 | 10.60 | 16.93 | 24.19 |
| Connecticut | 5.50 | 8.66 | 9.81 | 23.99 | 20.54 | 21.53 | 51.44 | 11.21 | 17.21 | 21.90 |
| New England | 5.63 | 10.40 | 12.24 | 28.27 | 24.26 | 20.51 | 54.05 | 11.14 | 19.31 | 26.82 |
| New York | 5.38 | 11.38 | 8.85 | 25.61 | 24.01 | 20.30 | 55.68 | 10.02 | 20.62 | 24.54 |
| New Jersey | 5.06 | 10.68 | 9.96 | 25.59 | 26.22 | 18.23 | 56.96 | 10.22 | 22.16 | 25.25 |
| Pennsylvania | 4.30 | 12.11 | 9.84 | 26.25 | 25.53 | 18.37 | 53.44 | 10.56 | 19.33 | 25.38 |
| Delaware | 4.50 | 10.92 | 10.82 | 26.24 | 31.42 | 20.01 | 58.78 | 9.22 | 28.46 | 26.87 |
| District of Columbia | 5.64 | 10.32 | 6.25 | 22.21 | 15.69 | 20.75 | 55.93 | 9.64 | 11.46 | 19.64 |
| Maryland | 4.02 | 11.42 | 9.21 | 24.65 | 24.41 | 16.54 | 22.88 | 11.27 | 19.74 | 24.29 |
| West Virginia | 3.18 | 13.01 | 9.58 | 25.77 | 20.31 | 21.20 | 57.58 | 8.96 | 20.66 | 24.80 |
| Middle Atlantic | 4.63 | 11.56 | 9.51 | 25.70 | 25.01 | 19.48 | 50.85 | 10.28 | 20.44 | 24.96 |
| Virginia | 3.13 | 11.38 | 9.68 | 24.19 | 21.02 | 23.69 | 11.51 | 9.35 | 19.73 | 23.67 |
| North Carolina | 3.61 | 9.69 | 8.22 | 21.72 | 19.58 | 18.47 | 34.06 | 11.73 | 20.41 | 21.48 |
| South Carolina | 3.75 | 9.91 | 8.05 | 21.71 | 19.61 | 16.86 | 50.11 | 16.65 | 21.90 | 21.76 |
| Georgia | 4.04 | 9.14 | 6.24 | 21.42 | 21.59 | 16.14 | 47.41 | 22.22 | 21.63 | 21.46 |
| Florida | 5.27 | 6.99 | 7.90 | 20.16 | 20.80 | 9.93 | 47.62 | 25.85 | 19.88 | 20.13 |
| South Atlantic | 4.05 | 9.29 | 8.34 | 21.68 | 20.28 | 16.52 | 37.15 | 23.08 | 20.96 | 21.55 |
| Ohio | 3.53 | 12.43 | 11.94 | 27.90 | 28.10 | 16.99 | 50.49 | 9.80 | 22.42 | 27.46 |
| Indiana | 3.77 | 12.94 | 13.75 | 30.46 | 28.23 | 10.86 | 55.78 | 8.21 | 24.61 | 29.67 |
| Illinois | 4.53 | 12.63 | 14.52 | 31.68 | 34.16 | 4.96 | 58.55 | 14.60 | 13.49 | 20.59 |
| Michigan | 3.29 | 13.52 | 12.97 | 29.78 | 27.67 | 19.73 | 58.19 | 9.47 | 22.00 | 29.00 |
| Wisconsin | 3.25 | 14.08 | 16.34 | 33.67 | 35.31 | 5.74 | 54.45 | 9.14 | 20.21 | 32.33 |
| East North Central | 3.70 | 12.94 | 13.50 | 30.14 | 30.87 | 6.19 | 57.82 | 11.20 | 16.10 | 26.33 |
| Minnesota | 4.33 | 19.45 | 14.14 | 37.92 | 35.34 | 31.48 | 60.15 | 7.98 | 30.01 | 36.15 |
| Iowa | 5.58 | 16.98 | 8.88 | 31.44 | 32.40 | 18.00 | 59.12 | 39.90 | 26.86 | 29.85 |
| Missouri | 6.12 | 15.46 | 10.33 | 31.91 | 38.04 | 4.85 | 58.94 | 25.75 | 14.22 | 24.17 |
| North Dakota | 5.56 | 25.65 | 7.57 | 38.99 | 31.23 | 45.17 | 55.50 | 50.71 | 45.76 | 42.63 |
| South Dakota | 9.52 | 21.95 | 1.79 | 33.16 | 36.89 | 30.02 | 50.50 | 34.84 | 32.98 | 33.02 |
| Nebraska | 10.98 | 20.61 | 2.06 | 33.65 | 36.26 | 32.00 | 60.50 | 35.31 | 35.38 | 34.79 |
| Kansas | 9.06 | 20.75 | 4.95 | 34.56 | 33.76 | 31.04 | 60.36 | 42.74 | 35.12 | 34.90 |
| West North Central | 6.13 | 17.47 | 9.62 | 35.22 | 35.49 | 14.70 | 59.06 | 36.96 | 24.40 | 29.58 |
| Kentucky | 3.94 | 10.98 | 9.78 | 24.70 | 30.33 | 22.63 | 51.60 | 8.12 | 27.29 | 26.35 |
| Tennessee | 4.06 | 11.15 | 9.49 | 24.70 | 29.46 | 26.15 | 56.72 | 9.08 | 30.31 | 26.27 |
| Alabama | 4.22 | 9.98 | 7.50 | 21.70 | 22.73 | 12.39 | 53.45 | 18.20 | 18.10 | 20.52 |
| Mississippi | 5.70 | 9.52 | 7.17 | 22.39 | 32.70 | 13.79 | 53.41 | 21.94 | 27.97 | 25.43 |
| East South Central | 4.37 | 10.37 | 8.36 | 23.10 | 28.84 | 16.39 | 53.75 | 12.55 | 24.52 | 23.63 |
| Arkansas | 5.30 | 10.60 | 11.91 | 27.81 | 30.76 | 22.62 | 53.93 | 37.21 | 33.24 | 30.32 |
| Louisiana | 5.97 | 11.39 | 8.78 | 26.14 | 34.90 | 16.28 | 54.43 | 36.05 | 30.56 | 28.06 |
| Oklahoma | 5.81 | 13.24 | 5.78 | 24.83 | 32.64 | 16.08 | 58.18 | 40.28 | 22.58 | 23.50 |
| Texas | 5.75 | 12.26 | 6.64 | 24.65 | 38.07 | 21.43 | 59.09 | 35.66 | 29.96 | 27.30 |
| West South Central | 5.59 | 11.67 | 8.64 | 25.90 | 34.31 | 19.51 | 53.84 | 36.28 | 29.96 | 27.87 |
| Montana | 9.59 | 20.44 | 1.02 | 31.05 | 27.28 | 43.22 | 60.60 | 43.76 | 37.71 | 36.72 |
| Idaho | 10.53 | 12.96 | 1.79 | 28.57 | 25.78 | 31.08 | 60.56 | 39.69 | 29.30 | 28.28 |
| Wyoming | 11.54 | 22.32 | 1.62 | 35.48 | 31.23 | 39.16 | 60.50 | 31.71 | 36.57 | 36.29 |
| Colorado | 9.85 | 20.63 | 4.22 | 34.70 | 36.64 | 39.76 | 57.16 | 26.76 | 38.16 | 36.79 |
| New Mexico | 9.30 | 13.38 | 2.35 | 26.03 | 38.90 | 41.82 | 60.50 | 58.93 | 40.17 | 38.77 |
| Arizona | 10.88 | 14.27 | 2.38 | 27.53 | 37.52 | 37.53 | 50.92 | 34.51 | 36.96 | 36.02 |
| Utah | 7.91 | 15.03 | 3.23 | 26.17 | 23.96 | 32.30 | 59.31 | 34.74 | 27.09 | 27.00 |
| Nevada | 7.60 | 12.11 | 4.79 | 24.50 | 23.03 | 33.07 | 60.60 | 34.15 | 31.02 | 29.75 |
| Mountain | 10.33 | 16.35 | 2.70 | 29.38 | 32.76 | 37.29 | 56.62 | 35.75 | 34.67 | 33.55 |
| Washington | 7.31 | 12.76 | 9.77 | 29.84 | 40.46 | 27.28 | 59.76 | 25.47 | 36.12 | 34.51 |
| Oregon | 8.79 | 13.32 | 8.11 | 30.22 | 27.34 | 22.17 | 57.90 | 36.85 | 28.05 | 28.37 |
| California | 10.81 | 10.06 | 5.82 | 26.51 | 31.94 | 25.56 | 53.62 | 14.18 | 24.45 | 24.96 |
| Pacific | 10.32 | 10.56 | 6.20 | 27.08 | 32.18 | 25.24 | 56.01 | 15.80 | 25.96 | 26.22 |
| Continental U. S. | 4.51 | 11.43 | 9.66 | 25.80 | 28.64 | 14.47 | 51.67 | 21.68 | 23.14 | 25.00 |
| Hawaii | 10.55 | 5.53 | 15.14 | 35.22 | 26.71 | 16.79 | 58.25 | 54.33 | 33.09 | 34.06 |
| Puerto Rico | 11.85 | 5.43 | 9.61 | 26.89 | 22.97 | 26.08 | 59.52 | 20.66 | 22.97 | 26.30 |
| Alaska | 8.56 | 16.62 | 9.96 | 35.14 | 32.27 | 48.74 | 60.56 | 36.25 | 43.33 | 41.81 |
| Territories | 11.55 | 6.12 | 11.04 | 28.72 | 25.13 | 18.23 | 56.27 | 45.19 | 29.65 | 28.98 |
| U. S. Average: | | | | | | | | | | |
| 1952-53 | 4.53 | 11.34 | 9.88 | 25.85 | 28.54 | 14.48 | 51.89 | 21.95 | 23.24 | 25.06 |
| 1951-52 | 4.30 | 11.14 | 9.62 | 24.86 | 5/ 27.95 | 14.71 | 49.98 | 20.97 | 5/ 22.16 | 5/ 24.04 |
| 1950-51 | 4.18 | 11.03 | 8.98 | 24.19 | -- | -- | -- | -- | 21.14 | 23.23 |

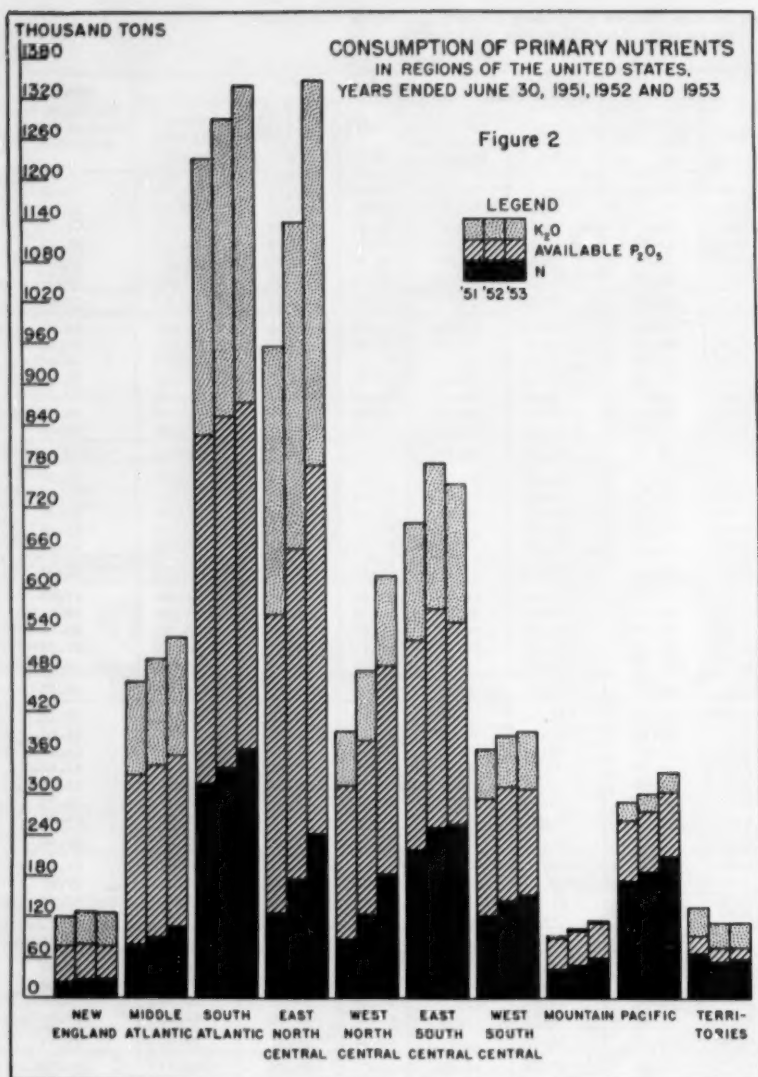
^{1/} Excludes materials not guaranteed to contain N, P₂O₅, or K₂O.

^{2/} Guaranteed to contain two or more of the primary plant nutrients, N, P₂O₅, or K₂O.

^{3/} Guaranteed to contain only one of the primary plant nutrients.

^{4/} Includes the available P₂O₅ content of colloidal phosphate and phosphate rock as 2 percent and 3 percent, respectively.

^{5/} Revised.



the fertilizers has increased rapidly between 1949-50 and 1952-53. During this period, the average nutrient content of fertilizers increased from 22.67 percent in 1949-50 to 25.06 percent in 1952-53; a rise in value of 2.39 in three years. While be-

tween 1943-44 and 1949-50, the average increased from 20.58 to 22.67 percent; a rise in value of 2.09 in six years.

The primary nutrient content of fertilizers are based on the amounts of fertilizers reported herein and

their average analyses as found by the fertilizer control officials of the respective state in which these fertilizers were consumed. Figure 2 shows the total tonnage of primary nutrients consumed in each region in comparison with consumption in 1950-51 and 1951-52. State consumption in relation to consumption in 1951-52 is shown by the index numbers, in percent, in the last column of Table 1. These numbers are placed alongside of the index numbers of fertilizer consumption. The difference in the two numbers is an indication of the change in composition of the fertilizers.

Total consumption of primary nutrients in the New England region and the Territories was approximately the same as in 1951-52 but was four percent less in the East South Central region. In the West South Central region although the amount of fertilizer consumed was 5 percent below that in 1951-52, the use of high analysis fertilizers resulted in a 2 percent increase in the quantity of nutrients. Total nutrients consumed in all other regions increased from 4 to 30 percent.

High analysis fertilizers have changed the order of highest consuming regions. Although, the total consumption of fertilizers is still the highest for the South Atlantic region where consumption amounted to 6,200,202 tons of primary nutrient bearing fertilizers (Table 5) in comparison with 5,099,353 tons in the East North Central region, the nutrient content was but 1,337,048 tons (Table 6) compared with 1,342,877 tons in the East North Central region. The average nutrient content of fertilizers consumed in the South Atlantic region was 21.56 percent (Table 7) in comparison with 26.33 percent for the East North Central region. In terms of primary nutrients, this latter region is now the highest consuming area.

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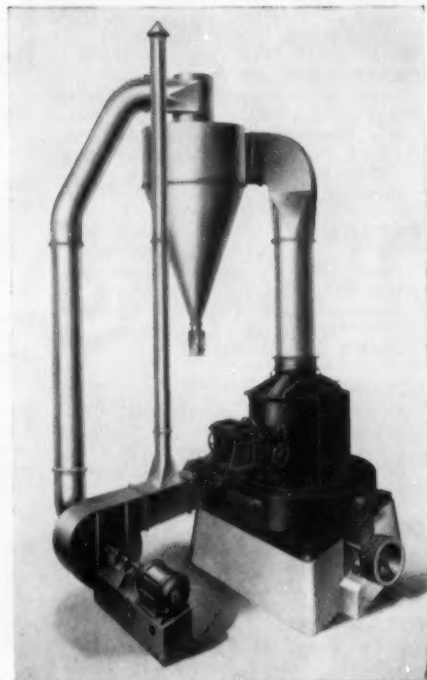
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Nathan Mayo, Commissioner of Agriculture, Tallahassee; J. J. Taylor, State Chemist, Agriculture Dept., Tallahassee.

GEORGIA—

Tom Linder, Commissioner of Agriculture; C. R. Clark, State Chemist, Dept. of Agriculture, 254 Capitol Place, Atlanta 3; A. M. Lott, Chief Fertilizer Inspector, 224 State Capitol, Atlanta 3.

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FERTILIZER CONTROL OFFICIALS

United States, Canada, Hawaii, Puerto Rico

The names of the officials to be addressed in reference to fertilizer materials in each state that has fertilizer laws.

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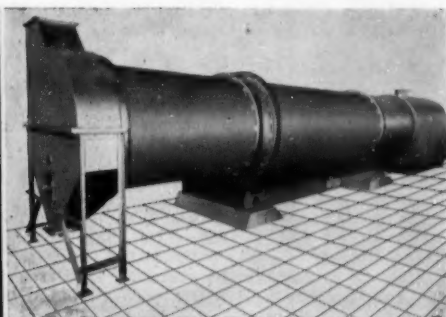
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Alabama Fertilizer Co., Montgomery, Ala.
Alabama Oil & Guano Co., Opelika, Ala.
Alabama Warehouse Co., Inc., Troy, Ala.
Alaska Liquid Fish Fertilizer Co., Seattle, Wash.
Albany Warehouse Co., Albany, Ga.
Albatros Superfosfaatfabrieken, N. V., Utrecht, Holland
Aldredge Industrial Oils, Inc., Indianapolis, Ind.
Alfco Liquid Fertilizer Co., Charlotte, N. C.
Algoma Steel Corp., Ltd., Sault Ste. Marie, Ont., Canada
Allen Co., Pittstown & Kings, N. J.
Allendale Fertilizer Co., Allendale, S. C.
Alliance Fertilizer Corp., Ellerson & Milford, Va.
Allied Chemical & Dye Corp. (See Nitrogen Div.)
All States Fertilizer Co., Greenwood, Miss.
The American Agricultural Chemical Co., New York, N. Y.; Montgomery, Ala.; Pensacola & Pierce, Fla.; Savannah, Ga.; Fulton & National Stock Yards, Ill.; Searsport, Maine; Baltimore, Md.; North Weymouth, Mass.; Detroit & Saginaw, Mich.; Carteret & South Amboy, N. J.; Buffalo & Phoenix, N. Y.; Greensboro & Henderson, N. C.; Cincinnati & Cleveland, Ohio; Cayce, Charleston & Spartanburg, S. C.; Alexandria & Norfolk, Va.; Havana, Cuba
American Brand Fertilizer Co., Hobart, Ind.
American Chemical Paint Co., Ambler, Pa.
American Corp., Terminal Island, Calif.
American Cyanamid Co., New York, N. Y.
American Liquid Fertilizer Co., Inc., Marietta, Ohio
American Potash & Chemical Corp., Los Angeles & Trona, Calif.
Americus Oil Co., Americus, Ga.
Anaconda Copper Mining Co., Fertilizer Dept., Anaconda, Mont.
Anderson Fertilizer Co., Inc., Anderson, S. C.
Anderson Guano Co., Timmonsville, S. C.

Apco Fertilizer Co., Halls, Tenn.
Apothecaries Hall Co., Waterbury & East Windsor, Conn.
Arcadia Cotton Oil Co., Arcadia, La.
Arizona Fertilizers, Inc., Phoenix, Ariz.; Yuma, Ariz.
Arizona Plant Food Corp., Glendale, Ariz.
Ark.-La. Cotton Oil Co., Magnolia, Ark.
Ark.-Mo. Plant Food Co., Inc., Walnut Ridge, Ark.
Arkansas Farmers Plant Food Co., N. Little Rock, Ark.
Arlington Manufacturing Co., Arlington, Ga.
Arlington Peanut & Fertilizer Co., Arlington, Ga.
Armour & Co., S. A. Fertilizer Dept., Havana & Matanzas, Cuba
Armour Fertilizer Works, Atlanta, Ga.; Birmingham & Montgomery, Ala.; Bartow & Jacksonville, Fla.; Albany, Augusta & Columbus, Ga.; Chicago Heights & East St. Louis, Ill.; Jeffersonville, Ind.; Shrewsbury, La.; Curtis Bay, Md.; Winona, Minn.; North Kansas City, Mo.; Carteret, N. J.; Greensboro & Navassa, N. C.; Cincinnati & Sandusky, Ohio; Columbia, S. C.; Columbia, Memphis & Nashville, Tenn.; Dallas & Houston, Texas; Norfolk, Va.; Havana & Matanzas, Cuba; San Juan, P. R.
H. M. Arnold Fertilizer Co., Monroe, Ga.
Aroostook Federation of Farmers, Caribou, Ft. Kent & Sherman, Maine
Aroostook Hi-Test Fertilizer Co., Presque Isle, Maine
Associated Chemicals, Salinas, Calif.
Atkins & Durbrow, Inc., New York, N. Y.
Atlanta Chemical Co., Atlanta, Ga.
Atlantic Fertilizer Corp., Riverhead & Jamesport, N. Y.
Atlas Fish Fertilizer Co., San Francisco, Calif.
Atwater Co., Locke, N. Y.
Augusta Fertilizer Co., Augusta, Ga.
Australian Fertilizers, Ltd., Sydney, New South Wales, Australia

B

B & W, Inc., Edison, Calif.
Bactex Co., Inc., San Antonio, Texas
Ball Fertilizer Co., Elizabeth City, N. C.
Bandini Fertilizer Co., Los Angeles, Calif.
Banks Fertilizer Co., St. Matthews, S. C.
The F. A. Bartlett Tree Expert Co., Stamford, Conn.
Bartlett & O'Bryan Fertilizer Co., Owensboro, Ky.
M. H. Barnett, Washington, Ga.
Batesburg Fertilizer Co., Batesburg, S. C.
J. E. Bauknight, Jr., Walhalla, S. C.
The Baugh & Sons Co., Inc., Baltimore, Md.; Newark & Oneida, N. Y.; New Bern, N. C.; Canton & Fostoria, Ohio; Philadelphia, Pa.; Portsmouth, Va.
The Baugh Chemical Co., Baltimore, Md.

Following this department is a Directory of Fertilizer Manufacturers, listed by states and communities, and giving detail as to plants and personnel.



Open Mouth
Pasted Bottom



Sewn
Valve Type



Open Mouth
Sewn Bottom



Pasted
Valve Type

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D. A. Beam Co., Inc., Shelby, N. C.
 Beebe Fertilizers, Inc., Shafter, Calif.
 Bell Fertilizer Co., Columbia, Ala.
 Bennett and Clayton Co., Inc., Prospect Plains, N. J.
 Benson-Maclean, Bridgeton, Indiana
 Bennett-Mount Co., Highstown, N. J.
 Berrien Product Co., Inc., Nashville, Ga.
 The Best Fertilizers Co., Oakland & Holtville, Calif.
 The Best Fertilizers Co. of Texas, Houston Texas
 Bioproducts, Oregon, Ltd., Warrenton, Oreg.
 Birds Eye-Snyder Div., General Foods Corp., Hillsboro, Oreg.
 The Blackshear Manufacturing Co., Blackshear, Ga.
 Blackstone Guano Co., Inc., Blackstone, Va.
 Blount Fertilizer Co., Greenville, N. C.
 Blue Belt Fertilizer Co., Savannah, Ga.
 Blue Grass Plant Food, Inc., Cynthia & Danville Ky.
 Blue Valley Fertilizer Co., Marysville, Kansas
 Blytheville Fertilizer Corp., Blytheville, Ark.
 F. W. Bolgiano & Co., Washington, D. C.
 Bone Dry Fertilizer Co., Richmond, Va.
 Boyer Fertilizer Corp., Ft. Worth Texas
 Boyer Fertilizer Service & Manufacturing, Watsonville, Calif.
 W. P. Boyle Co., Sumter, S. C.
 Bradley & Boswell, Ellerson, Va.
 W. C. Bradley Co., Columbus, Ga.
 Woodworth Bradley, Inc., Providence, R. I.
 Brea Chemicals, Inc., Brea, Calif.
 Britz Chemical Co., Oakland, Calif.
 Brown & Bryant, Shafter, Calif.
 Brown Fertilizer Co., Inc., Blackville, S. C.
 Leon Brown Floral Co., Salt Lake City, Utah
 Bryan Cotton Oil & Fertilizer Co., Bryan, Texas
 Herbert Bryant, Inc., Alexandria, Va.
 Bryant's, Inc., Bartow, Ga.
 Burr Gin & Fertilizer Co., Cheraw, S. C.
 Buckersfield's, Ltd., Vancouver, B. C., Canada
 The Buhner Fertilizer Co., Inc., Danville, Ill.; Seymour, Ind.
 Bunkie Phosphate Co., Bunkie, La.
 Burdette Mill & Gin Co., Washington, Ga.
 Burley Belt Plant Food Works, Lexington, Ky.
 Burlingham-Meeker Lime Co., Amity, Oreg.
 Burlington Rendering Co., Burlington, Vt.
 Burns and Co., Ltd., Calgary & Edmonton, Alta.; Vancouver, B. C.; Winnipeg, Man.; Kitchener, Ont.; Prince Albert & Regina, Sask., Canada

C

Cagmar Chemical Co., Santa Clara, Calif.
 Caldwell's, Inc., Spartanburg, S. C.
 California Cotton Oil Co., Los Angeles, Calif.
 California Liquid Fertilizer Co., Pasadena, Calif.
 California Spray Chemical Co., Richmond & Lindsay, Calif.
 California Sun Fertilizer Co., Los Angeles, Calif.
 The Calumite Corp., Altadena & Azusa, Calif.; New York, N. Y.; Marysville, Utah
 Camilla Cotton Oil Co., Camilla, Ga.
 Camp Chemical Co., Inc., Roxboro, N. C.
 Campbell Fertilizer Co., Houston, Texas
 Canadian Industries (1954), Ltd., Agricultural Chemicals Dept., Montreal, Que.; Halifax, N. S.; Chatham & Hamilton, Ont.; Beloit, Que., Canada
 Canada Packers, Ltd., Fertilizer & Feed Div., Toronto, Ont.; St. John, N. B.; Port Williams, N. S.; Chatham, Welland & W. Toronto, Ont.; Summerside, P. E. I.; Montreal & Ste. Foy, Que., Canada; Presque Isle, Me., USA.

Cantelou-Law Gin & Warehouse Co., Wetumpka, Ala.
 Capital Feed & Seed Co., Phoenix, Ariz.
 Capital Fertilizer Co., New York, N. Y.; Montgomery, Ala.
 Capitol Fertilizer Co.—Div. National By-Products, Inc., Denver, Colo.
 Carbola Chemical Co., Inc., Natural Bridge, N. Y.
 Carlisle Fertilizer Works, Inc., Carlisle, Pa.
 Carolina Mixing Co., Fairfax, S. C.
 Carolina Phosphate Products Co., Charleston, S. C.
 Carr-Boatright, Sandersville, Ga.
 Carroll County Cooperative Supplies Assn., Huntingdon, Tenn.
 Carroll Fertilizer Co., Dublin, Ga.
 Carter Fertilizer Co., Jefferson, Ga.
 Cartledge Fertilizer Co.—Div. Wilson & Toomer Fertilizer Co., Cottondale, Fla.
 A. L. Castle, Inc., Mountain View, Calif.
 Catawba Fertilizer Co., Lancaster, S. C.
 Central Farmers Co-Op, Inc., Selma, Ala.
 Central Chemical Corp., Hagerstown, Md.; Butler, Everett, Gettysburg & Milton, Pa.; Harrisonburg, Va.
 Central Georgia Fertilizer Co., Macon, Ga.
 Central Illinois Plant Foods, Inc., Tuscola, Ill.
 Central Texas Fertilizer Co., Inc., Comanche, Texas
 Chamberlin & Barclay, Inc., Cranbury, N. J.
 Chase & Co., Sanford, Fla.
 Chatelier's Laboratories, St. Petersburg, Fla.
 Chatelier Plant Food, St. Petersburg, Fla.
 Chavala Cooperative, Inc., Phenix City, Ala.
 Chemical Fertilizer Co., Modesto, Calif.
 Chemical Formulators, Inc., Charleston, W. Va.
 Chewsville Co-Operative, Assn., Inc., Chewsville, Md.
 Chicaksha Cotton Oil Co., Chickasha, Okla.
 Chilean Nitrate Sales Corp., New York, N. Y.
 Cie Nord Africaine de L'Hyperphosphate Reno, Montreal, Que., Canada
 Cimota-Enterprises, Inc., Boise, Idaho
 Circle Manufacturing Co., Social Circle, Ga.
 Citrus Culture Corp., Mount Dora, Fla.
 Clanton Fertilizer Co., Inc., Clanton, Ala.
 Claude & Letsinger Agricultural Supply, Porterville, Calif.
 Clinton Foods, Inc. (See Maxcy Fertilizers)
 Coast Agricultural Fertilizer Co., Pasadena, Calif.
 Coast Fisheries—Div. Quaker Oats Co., Wilmington, Calif.
 Coastal Fertilizer Co., Hemmingway, S. C.
 Cochran Warehouse Co., Butler, Ga.
 Coleman Guano Co., Pamplico, S. C.
 Colorado Plant Food Co., Manzanola & Monte Vista, Colo.
 Colonial Fertilizer Co., Ltd., Windsor, N. S., Canada
 Commerce Fertilizer Co., Commerce, Ga.
 Commonwealth Fertilizer Co., Inc., Russellville, Ky.
 Consolidated Chemical Industries, Inc., San Francisco, Calif.; Houston & Ft. Worth, Tex.; Baton Rouge, La.
 The Consolidated Mining & Smelting Co. of Canada, Ltd., Trail, B. C.; Calgary, Alta.; Kimberly & Vancouver, B. C.; Montreal, Que., Canada
 Consolidating Rendering Co., Boston, Mass.
 Consumers Bagging Co., Inc., Tusculumbia, Ala.
 Consumers Cooperative Assn., Kansas City, Mo.; Eagle Grove, Iowa; St. Joseph, Mo.; Muskogee, Okla.
 Contentnea Guano Co., Wilson, N. C.
 Cooperative Abonos Cuba, S. A., Havana, Cuba
 Cooperative Farm Chemicals, Inc., Lawrence, Kans.
 Cooperative Fertilizer Service, Inc., Salisbury, N. C.
 Cooperative Fertilizer Service of Baltimore, Inc., Curtis Bay, Md.
 Cooperative Fertilizer Service of Norfolk, Inc., Norfolk, Va.
 Cooperative Fertilizer Service of Richmond, Inc., Richmond, Va.; Louisville & Winchester, Ky.
 Cooperative Plant Foods, Inc., Schererville, Ind.

Cornland Plant Foods, Grinnell, Iowa.
 Coronet Phosphate Co.—Div. Smith-Douglass Co., Inc., Norfolk, Va.; Plant City, Fla.
 The Cotton Producers Association, Atlanta, Adel, Carrollton, Cordele, Savannah & Sylvester, Ga.
 Cotton States Fertilizer Co., Macon, Ga.
 Covington Fertilizer Co., Andalusia, Ala.
 Crane Fertilizer Co., Sacramento, Calif.
 Crawford Chemical Co., Inc., Bartlesville, Okla.
 Newton Crouch, Griffin, Ga.
 Crown Chemical & Mfg. Co., West Point, Miss.
 Crystal Chemical Co., Inc., South Sioux City, Nebr.
 The W. F. Cullens Fertilizer Co., Camilla, Ga.
 J. E. Culler Fertilizer Co., North, S. C.
 Cumberland Valley Cooperative Assn., Shippensburg, Pa.
 Curry Chemical Co., Inc., Scottsbluff, Neb.
 Roy Curtis & Son, Inc., Marion, N. Y.
 Cuthbert Gin Co., Cuthbert, Ga.

D

Dadeville Fertilizer & Gin Co., Dadeville, Ala.
 C. P. Daniel's Sons, Senoia, Ga.
 Darling & Co., Chicago, Cairo & East St. Louis, Ill.
 Davison Chemical Co.—Div. W. R. Grace & Co., Baltimore, Md.; Bartow, Fla.; Savannah, Ga.; New Albany, Ind.; Perry, Iowa; Gretna, La.; Curtis Bay, Md.; Lansing, Mich.; Alliance & Columbus, Ohio; Nashville, Tenn.
 Dawson Compress & Storage Co., Dawson, Ga.
 Dawson Cotton Oil Co., Dawson, Ga.
 Dayton Coal and Iron Corp., Dayton, Tenn.
 Dayton Fertilizer Corp., Dayton, N. J.
 Decatur Fertilizer Co., Decatur, Ala.
 Delta Cotton Oil & Fertilizer Co., Jackson, Miss.
 Delta Fertilizer Co., Helena, Ark.
 Delta Phosphate Co., Sioux City & Rock Rapids, Ia.
 Denmark Fertilizer Co., Denmark, S. C.
 Paul J. Devitt, Upper Darby, Pa.
 D. M. Dew & Sons, Inc., Latta, S. C.
 The DeWitt Chemical Co., Kingston, Pa.
 Diamond Fertilizer Co., Terra Bella, Calif.
 The Diamond Fertilizer Co., Sandusky & Ottawa, Ohio; Lansing, Mich.
 Diamond R Fertilizer Co., Winter Garden, Fla.
 Dixie Chemical Corp., New Bern, N. C.
 Dixie Fertilizer Co., Inc., Shreveport, La.
 Dixie Guano Co., Laurinburg, N. C.
 Dixie Guano Co., Inc., Suffolk, Va.
 Dobson Guano Co., Greer, S. C.
 Doggett-Pfeil Co., Springfield, N. J.
 Dominion Potash, Ltd., Montreal, Que., Canada
 Dominion Steel & Coal Corp., Ltd., Montreal, Que., & Sydney, N. S., Canada
 Dooly Fertilizer Co., Vienna, Ga.
 Dorchester Cotton Oil Co., St. George, S. C.
 Dorchester Fertilizer Co., Cambridge, Md.
 Doster Guano Co., Rochelle, Ga.
 Dothan Guano Co., Dothan, Ala.
 Douglas Fertilizer Co., Douglas, Ga.
 Downey Fertilizer Co., Downey, Calif.
 J. W. Dunn & Co., Seattle, Wash.
 Duval Sulphur & Potash Co., Houston & Orchard, Texas; Carlsbad, N. M.

E

Eagle Cotton Oil Co., Meridian, Miss.
 East Texas Products Co., Tyler, Texas.
 Eastern Guano Co., Fayetteville, N. C.
 Eastern States Farmers Exchange, Inc., W. Springfield, Mass.; Wilmington, Del.; N. Cambridge, Mass.; Kittinging & York, Pa.

Eastover Fertilizer Co., St. Matthews, S. C.
 Amos Eby & Company, Paradise, Pa.
 Economy Fertilizer Co., Inc., Fort Kent, Maine.
 Edmunds Chemical Co., Albuquerque, N. M.
 El Dorado Fertilizer Co., El Dorado, Ark.
 Elliott Ice Co., Charlottesville, Va.
 Emco Co., Fresno, Calif.
 Empire State Chemical Co., Athens, Ga.
 Epting Distributing Co., Leesville, S. C.
 The Erie Reduction Co., Erie, Pa.
 The Espoma Company, Millville, N. J.
 Espy Fertilizer Co., Inc., Headland, Ala.
 Etheredge Guano Co., Augusta, Ga.
 Etiwan Fertilizer Co., Charleston, S. C.
 Eufaula Cotton Oil Co., Eufaula, Ala.
 Eugene Chemical Works, Eugene, Oregon.
 Evans, Reed & Williams, Sylvania, Ga.
 Everglades Fertilizer Co., Ft. Lauderdale, Fla.

F

Fairview Fertilizer Co., Fairview, Kans.
 Falls City Fertilizer, Inc., Falls City, Neb.
 Farm Belt Fertilizer & Chemical Co., Kansas City, Kans.; Kansas City, Mo.
 The Farm Bureau Cooperative Assn., Inc. Columbus & Alliance, Ohio
 Farm Bureau Service Co. of Missouri, Inc., Jefferson City & New Florence, Mo.
 Farm Bureau Service, Inc., Lansing, Kalamazoo & Saginaw, Mich.
 Farm Fertilizers, Inc., Omaha, Neb.
 Farm Services, Covington, Tenn.
 Farm Service, Inc., Opelousas, La.
 Farmers Cooperative Exchange, Raleigh & Lumberton, N. C.
 Farmers Co-Operative Fertilizer Purchasers, Inc., Kenbridge, Va.
 Farmers Cotton Oil Co., Wilson, N. C.
 Farmers Fertilizer Co., Texarkana, Ark.; Texarkana, Texas
 Farmers Fertilizer Co., Columbus, Ohio
 Farmers Fertilizer & Feed Co., Westminster, Md.
 Farmers Fertilizer Works, Elizabethtown, Pa.
 Farmers Guano Co., (Branch, Farmers Cotton Oil Co.), Norfolk, Va.
 The Farmers Union Warehouse Co., Monticello, Ga.
 Farmers Warehouse Co., Leary, Ga.
 The Farmer & Planters Co., Salisbury, Md.
 Farmville Oil & Fertilizer Co., Farmville, N. C.
 Fayette Mill, Gin & Ice Co., Fayette, Ala.
 Federal Chemical Co., Louisville, Ky.; Butler, Ind.; Danville, Ill.; Columbus, Ohio; Humbolt & Nashville, Tenn.
 Pereda Fernandez y Cia, Havana, Cuba
 Fertile Corp. of America, New York, N. Y.; Worthington, Ohio
 The Fertilo Corp., Milwaukee, Wisc.
 Fertilizer Manufacturing Cooperative, Inc., Baltimore, Md.
 Fertilizer Products Corp., Collinswood, N. J.
 Fertilizers & Chemicals, Ltd., Haifa, Israel
 Fidelity Chemical Corp., Houston, Texas
 Fidelity Products Co., Edison, Ga.
 Florida East Coast Fertilizer Co., Homestead, Fla.
 Florida Favorite Fertilizer, Inc., Lakeland, Fla.
 Foremost Fertilizer Co., Leesburg, Fla.
 Ft. Laramie Fertilizer Co., Ft. Laramie, Wyo.
 Ft. Smith Cotton Oil Co., Ft. Smith, Ark.
 The Fort Valley Oil Co., Ft. Valley, Ga.
 Fortified Farm Products Co., Portland, Oregon.
 Fosgate Growers Cooperative, Orlando, Fla.
 Fowler Fertilizer Co., Covington, Ga.
 Fox Point Chemical Co., E. Providence & Fox Point,

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Fresno Agricultural Chemical Co., Fresno, Calif.
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Bob Fruen Fertilizer Co., Hatfield, Minn.

G

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Flats, Bridgehampton, Canastota, Lyons & North
Collins, N. Y.; Union City, Pa.
Perez Galan y Fernandez, S.L., Havana, Cuba
Galbraith & Co., Seattle, Wash.
Garden Valley Fertilizer Co., Campbell, Calif.
Gates Brothers, Inc., Wendell, Idaho.
General Fertilizer Co., Fremont, Nebr.
General Fertilizer & Supply Co., Chula Vista, Calif.
General Foods, Inc. (See Birds Eye—Snyder Div.)
General Liquid Fertilizer Co., Kent City, Mich.
Geneva Food & Chemical Co., Pleasant Grove, Utah
Gentile Bros. Co., Haines City, Fla.
Georgia Belle Guano Co., Newnan, Ga.
Georgia Fertilizer Co., Valdosta, Ga.
Germain's, Inc., Los Angeles, Calif.
Gibsonburg Coal & Fertilizer Co., Gibsonburg, Ohio.
Gilchrist Plant Food Co., Morris, Ill.
Gilmer Cotton Oil & Fert. Co., Gilmer, Texas.
Glades Chemical Co., Pahokee, Fla.
Glenn Fertilizer Co., Willows, Calif.
Globe Fertilizer Co., South Vancouver, B. C. Canada.
Golden State Plant Food Co., Glendora, Calif.
Gormel Plant Food Products, Rochester, N. Y.
A. F. Gossett & Sons, Griffin, Ga.
Goulard & Olena, Inc., Skillman, N. J.
Graco Fertilizer Co., Cairo, Ga.
A. D. Graham & Co., Inc., Somerset, Pa.
Gramercy Park Fertilizer Co., Los Angeles, Calif.
Gramling Merco Co., Inc., Gramling, S. C.
Gregory-Doyle, Inc., Huntington, N. Y.
Green & Reedy Fertilizer Co., Franklinton, La.
Green Valley Fertilizer & Chemical Co., Ltd., New
Westminister, B. C. Canada.
Greenville Plant Food Co., Greenville, Ala.
Greer Guano Co., Greer, S. C.
Griffith & Boyd Co., Baltimore, Md.
Growers Chemical Supply Co., Azusa, Calif.
Growers Fertilizer Co., Stockton, Calif.; Lovelock, Nev.
The Growers Fertilizer Co., Ft. Pierce, Fla.
Growers Fertilizer Cooperative, Lake Alfred, Fla.
Guaranty Seed Co., Bunkie, Louisiana.
The Gulf Fertilizer Co., Tampa, Fla.
Gulfport Fertilizer Co., Gulfport, Miss.
Gurney Seed & Nursery Co., Yankton, S. Dak.
Gutwein Agricultural Service, Inc., Francesville, Ind.

H

C. H. Haas Co., Modesto & Ceres, Calif.
Hager Supply Co., San Bernardino, Calif.
Haines City Fertilizer Works, Haines City, Fla.
Hazelhurst Oil Mill & Fertilizer Co., Hazelhurst, Miss.
Hamilton By-Products Coke Ovens, Ltd., Hamilton,
Ont., Canada
Hamilton Farm Bureau Cooperative, Inc., Hamilton,
Mich.
The M. Hamm Co., Washington C. H., Ohio
Hampstead Fertilizer Co., Hampstead, Md.
Hector Supply Co., Miami & Belle Glade, Fla.
Heid Brothers Corp., El Paso, Texas

Heller Greenhouse Laboratories, Colorado Springs, Colo.
 Henry County Supply Co., Mt. Pleasant, Iowa
 James Henry Packing Co., Seattle, Wash.
 Higgins Formula Co., Fort Fairfield, Maine
 Highlands Fertilizer Co., Sebring, Fla.
 The Ben Hill Co., Fitzgerald, Ga.
 Alvin H. Hinson, Plant City, Fla.
 Hinton & Co., Reynolds, Ga.
 Hi-Yield Fertilizer Co., Bonham, Texas
 Hi-Yield Plant Food Co., Mt. Pleasant, Texas
 Hoblit-Bonnett Fertilizer Co., Atlanta, Ill.
 Holly Hill Fertilizer Co., Holly Hill, S. C.
 Home Feed & Fertilizer Co., Edenton, N. C.
 Home Guano Co., Mullins, S. C.
 The Home Guano Co., Dothan, Ala.
 Home Fertilizer & Cotton Oil Co., Inc., Headland, Ala.
 Wm. C. Horn, Inc., Bellevue, Ohio
 William Houde, Ltd., LaPrairie, Que., Canada
 Howard Fertilizer Co., Orlando, Fla.
 Howard Phosphorus Co., Orlando, Fla.
 Howe, Inc., Minneapolis, Minn.
 Hulme Fertilizer and Warehouse Co., Athens, Ga.
 Humphreys-Godwin Co., Memphis, Tenn.
 Hurtsboro Fertilizer Co., Hurtsboro, Ala.
 Huston Culver Fertilizers, Inc., Seaford, Del.
 Hutson Chemical Co., Murray, Ky.
 The Hy-Trous Corp., Woburn, Mass.
 The Hy-Trous Co. of Canada, Cornwall, Ont., Canada

I

Idaho Falls Bonded Produce & Supply, Idaho Falls, Idaho
 Ideal Fertilizer Co., Bartow, Fla.
 Illinois Farm Supply Co., Chicago & East St. Louis, Ill.
 Imperial Cotton Oil Co., Macon, Miss.
 Imperial Fertilizer & Sulphur Co., Inc., Calexico, Calif.
 Independent Guano Corp., Greenville, S. C.
 Independent Manufacturing Co., Phila., Pa.
 Indiana Farm Bureau Cooperative Assn., Inc., Indianapolis, Columbia City & Jeffersonville, Ind.
 Inland Fertilizer Co., Los Angeles, Calif.
 International Fertilizer & Feed Co., Bakersfield, Calif.
 International Fertilizers, Ltd., Quebec, Que.; St. John, N. B., Canada
 International Minerals & Chemical Corp., Chicago, Ill.;
 Cullman, Florence & Montgomery, Ala.; Texarkana, Ark.; Bartow, Jacksonville, Mulberry & Pensacola, Fla.; Americus, Augusta, East Point & Tifton, Ga.; Chicago Heights, Ill.; Mason City, Iowa; Somerset, Ky.; Houlton, Maine; Woburn, Mass.; Tupelo, Miss.; Carlsbad, N. M.; Buffalo & Niagara Falls, N. Y.; Raleigh, Wilmington & Winston-Salem, N. C.; Lockland, Ohio; Hartsville & Spartanburg, S. C.; Clarksville, Columbia & Greenville, Tenn.; Ft. Worth, Texas.
 Iowa Farm Supply Co., Des Moines & Pocahontas, Iowa
 Island Fertilizers, Inc., Charlottetown, P.E.I., Canada

J

Jackson Fertilizer Co., Jackson, Miss.
 Jacksonville Fertilizer Co., Jacksonville, Texas
 Jamaica Fertilizer Products, Ltd., Falmouth, Jamaica, British West Indies
 Jasper County Farm Bureau Co-Op., Rensselaer & Pleasant Ridge, Ind.
 Jessup Milling Co., San Francisco, Calif.
 Johnson Cotton Co., Wilmington & Dunn, N. C.
 Johnson Fertilizer Co., Inc., Griffin, Ga.
 Jones Fertilizer Co., Angier, N. C.
 J. M. Jordan, Angelus, S. C.
 Josey Fertilizer Corp., Wilmington, N. C.

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K

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 Kansas Agricultural Chemical Co., Inc., Junction City, Kansas
 Morris Karp & Son, Farmingdale, N. Y.
 Kellogg Supply Co., Wilmington & Los Angeles, Calif.
 Kelly, Weber & Co., Inc., Lake Charles & Eunice, La.
 Kelly-Western Seed Div., Utah Coop. Assn., Salt Lake City, Utah.
 Kentucky Fertilizer Works, Winchester, Ky.
 Kershaw Oil Mill, Kershaw, S. C.
 Keystone Grange Exchange, Drumore, Pa.
 Kickapoo Fertilizers—Div. Midwestern Phosphate Corp., Hillsboro, Wisc.
 Kingsbury & Co., Inc., Indianapolis & Peru, Ind.
 Kipfer Chemical Co., Harlington, Texas
 Knoxville Fertilizer Company, Knoxville & Nashville, Tenn.; London, Ky.
 Koller Fertilizer Co., Inc., York, Coatesville & Glen Rock, Pa.
 The N. S. Koos & Son Co., Kenosha, Wisc.
 Kova Fertilizer, Inc., Greensburg, Ind.

L

Lake Charles Feed Co., Inc., Lake Charles, La.
 Lancaster Bone & Fertilizer Co., Quarryville, Ephrata & Oxford, Pa.
 Land O' Lakes Creameries, Inc., Minneapolis, Minn.
 Lange Brothers, St. Louis, Mo.
 La Plata Chemical Co., La Plata, Mo.
 Laurel Oil & Fertilizer Co., Laurel, Miss.
 Lebanon Chemical Corp., Lebanon, Pa.
 Leffingwell Chemical Co., Whittier, Calif.
 Leon's Horticulture Specialties Co., Glendale, Calif.
 Liberty Manufacturing Co., Red Springs, N. C.
 Charles H. Lilly Co., Seattle & Ellensburg, Wash.
 Lincoln Service & Supply, Inc., Grand Island, Neb.
 Lion Oil Co., El Dorado, Ark.
 Liquid Plant Food, Monrovia, Calif.
 Lodi Agriculture Suppliers, Inc., Lodi, Calif.
 Logan-Robinson Fertilizer Co., Charleston, S. C.
 Longala Phosphorus Co., High Springs, Fla.
 Longaker Mills, Inc.—Div. Federal Chem. Co., Butler, Ind.
 Long Island Produce and Fertilizer Co., Inc., Riverhead, Mattituck (L. I.) & Southold, N. Y.
 Looper & Swann, Dalton, Ga.
 Fred E. Lord, Inc., Espy, Pa.
 Louisiana Agricultural Supply Co., Inc., Baton Rouge, La.
 Louisville Fertilizer & Gin Co., Louisville, Ga.
 Lovett & Co., Inc., Wrightsville, Ga.
 Lovett & Brinson, Inc., Dublin, Ga.
 Lowell Rendering Co., Lowell, Mass.
 Lynchburg Fertilizer Co., Lynchburg, S. C.
 Lynden Department Store, Inc., Lynden, Wash.
 Lyons Fertilizer Co., Tampa, Fla.

M

K. W. Macdonald Co., Watsonville, Calif.
 J. A. McCarty Seed Co., Evansville, Ind.
 McConnell Fertilizer Co., Inc., Royston, Ga.
 McCook Fertilizer, Inc., McCook, Nebr.
 McCormick & Co., Inc., Baltimore, Md.
 McDuffie Oil & Fertilizer Co., Thomson, Ga.
 P. R. McKnight & Son Gin Co., Senoia, Ga.
 McLaurin's, Inc., Rockingham, N. C.
 McLees Fertilizer Co., Anderson, S. C.

McMillan & Harrison Fertilizer Co., Mobile, Ala.
 Mackenzie Chemical Co., Sacramento, Calif.
 Magee Cooperative Gin (AAL), Magee, Miss.
 Magnolia Cotton Oil Co., Magnolia, Miss.
 Magnolia Fertilizer Co., Vicksburg, Miss.
 Magnolia Fertilizer Co., Seattle, Wash.
 Maloney Seed Co., Monte Vista, Colo.
 The Mamlon Co., New Haven, Conn.
 Manchester Products, Galt, Ont., Canada
 Manito Filler Co., Inc., Peoria, Ill.
 Manning & Shine, Latta, S. C.
 Cipriano Manrique, Inc., Caguas, P. R.
 Paul A. Mariani, Jr., Cupertino, Calif.
 Marico, Inc., Ocala, Fla.
 Marine By-Products Fertilizer Co., Inc., Seattle, Wash.
 Marine Feed & Fertilizer Co., Gulfport, Miss.
 Marion Cotton Oil Co., Marion, S. C.
 Marion Plant Life Fertilizer Co., Marion, Ohio
 Marques Commercial, Inc., Arecibo, P. R.
 Marquiss Farm Supply Co., Clinton, Ill.
 Marshall Cotton Oil Co., Marshall, Texas
 Mashburn & Fitzgerald, Rochelle, Ga.
 Mason Gin & Fertilizer Co., Madison, Ga.
 Master Fertilizer Co., Inc., Fairmont, N. C.
 Mathieson Chemical Corp. (See Olin Mathieson Chemical Corp.)
 Maxcy Fertilizers—Dept. Clinton Foods, Inc., Frostproof, Fla.
 Maxton Oil & Fertilizer Co., Maxton, N. C.
 Maybank Fertilizer Corp., Charleston, S. C.
 Medford's, Inc., Chester, Pa.
 Meeker-Hughes Co., Inc., Salem, Ore.
 The Frederick Mehring Fertilizer Works, Inc., Keymar, Md.
 Meigs Farmers Cooperative, Decatur, Tenn.
 Melson Fertilizer Co., Inc., Georgetown, Del.
 Merchants Fertilizer & Phosphate Co. of Pensacola, Inc., Pensacola, Fla.
 Meridian Fertilizer Factory, Hattiesburg, Miss.
 Miami Fertilizer Co., Dayton, Ohio
 Mid-South Chemical Co. (See Apco Fertilizer Co.)
 Mid-State Fertilizer Co., Redmond, Ore.
 Midwest Plant Food, Inc., Napoleon, Ohio
 Midwestern Phosphate Corp., Madison, Wisc.
 Milford Fertilizer Co., Milford, Del.
 The Millen Fertilizer Co., Millen, Ga.
 Miller Chemical Corp., Charlestown, W. Va.
 Miller Chemical & Fertilizer Corp., Baltimore, Gaithersburg & Whiteford, Md.; Bridgeton, N. J.; Hanover, Pa.
 Miller Fertilizer Co., Jefferson, S. C.
 Miller Products Co., Portland, Ore.
 Mills Fertilizer Co., Gramling, S. C.
 James Mills Growers Service Co., Hamilton City, Calif.
 Milwaukee Sewerage Commission, Milwaukee, Wisc.
 Min-A-Ray Products Co., Los Angeles, Calif.
 Minden Cotton Oil & Ice Co., Minden, La.
 Mineral Fertilizer Co., Midvale, Utah
 Minnesota Farm Bureau Service Co., St. Paul & Moorehead, Minn.
 Misner Fertilizers, Port Dover, Ont., Canada
 Mississippi Federated Cooperatives, Jackson, Canton, Corinth, Laurel & Meridian, Miss.
 Missouri Farmers Assn., Inc., Columbia, Joplin, Maryland Hts. & Springfield, Mo.
 Missouri Plant Food Co., Inc., Sikeston, Mo.
 Modern-Ag Crop Service, Fresno, Calif.
 Molony Fertilizer Co., Charleston, S. C.
 Monroe Oil & Fertilizer Co., Monroe, Ga.
 Montreal Coke & Manufacturing Co., Montreal, Que., Canada
 The Moore Co., Savannah, Ga.
 The Morris Fertilizer Co., Greensboro, N. C.
 Mountain Copper Co., San Francisco, Calif.
 Muscle Shoals Chemical Co., Tuscumbia, Ala.
 Mutual Fertilizer Co., Savannah, Ga.

N

Na-Churs Plant Food Co., Marion, Ohio
 Na-Churs Plant Food Co. (Canada) Ltd., London, Ont.
 Canada
 Naco Fertilizer Co., San Francisco, Los Angeles, Madera,
 & Santa Clara, Calif.
 Naco-Thurston Fertilizer Co.—Div. W. R. Grace & Co.,
 Joplin & Trenton, Mo.; Ft. Pierce & Jacksonville, Fla.;
 Wilmington, N. C.; Findlay, Ohio; Tulsa, Okla.;
 Charleston & Spartanburg, S. C.
 National Fertilizer Co.—Div. National By-Products, Inc.,
 Des Moines, Iowa; Fairbury, Nebr.
 Nebraska Fertilizer Co., Omaha, Nebr.
 Neosho Fertilizer, Inc., Chanute, Kans.
 New Bern Oil & Fertilizer Co., New Bern, N. C.
 New Haven Rendering Co., New Haven, Conn.
 Newton Oil Mill, Newton, Miss.
 Newton Oil & Fertilizer Co., Newton, N. C.
 Nichols Fertilizer Corp., Norfolk, Va.
 W. P. Nimmons & Co., Seneca, S. C.
 Nitrogen Div.—Allied Chemical & Dye Corp., New York,
 N. Y.; S. Omaha, Nebr.; Ironton, Ohio; Hopewell, Va.
 Lloyd W. Nolt, Silver Spring, Pa.
 The Norris Fertilizer Co., Rushville, Ind.
 V. W. Norris & Son, Inc., Rushville, Ind.
 Norsco Products, Inc., San Jose, Calif.
 North American Cyanamid Co., Ltd., Toronto, Niagara
 Falls & Port Robinson, Ont., Canada
 North American Fertilizer Co., Louisville, Ky.
 North American Phosphate Co., Louisville, Ky.
 North East Mississippi Fertilizer Co., Amory, Miss.
 North Idaho Chemical Co., Inc., Lewiston, Idaho
 Northern California Fertilizer Co., San Jose, Calif.
 Northern Chemical Industries, Baltimore, Md.; Sears-
 port, Maine
 Northwest Cooperative Mills, St. Paul & Winona, Minn.;
 Green Bay, Wisc.
 Northwest Gypsum Co., Colfax, Wash.
 Nu-Life Fertilizer, Inc., Tacoma, Wash.
 Nutritional Concentrates, Inc., New Lexington, Ohio
 Nutt & Bond, Inc., Jackson, Ga.



Ochoa Fertilizer Corp., Hato Rey, Guanica & Ponce,
 P. R.
 Ocilla Oil & Fertilizer Co., Ocilla, Ga.
 Ohio Farmers Grain & Supply Assn., Fostoria, Ohio
 Ohio Valley Fertilizer Corp., Maysville, Ky.
 Kinchen O'Keefe & Co., Greenville, Miss.
 Oklahoma Fertilizer & Chemical Co., Oklahoma City &
 LeCox, Okla.
 Old Deerfield Fertilizer Co., Inc., South Deerfield, Mass.
 Olds & Whipple, Inc., Hartford, Conn.
 Olin Mathieson Chemical Corp.—Agricultural Chemicals
 Div., Little Rock, Ark.; Phoenix, Ariz.; N. Little Rock,
 Ark.; Lake Charles, La.; Baltimore & Curtis Bay,
 Md.; Williamston, N. C.; Lebanon, Pa.; Pasadena,
 Texas; Morgantown, W. Va.
 Omega Finance Co. & Omega Fertilizer Warehouse,
 Omega, Ga.
 Ontario Fertilizer Works, Inc., Ontario, Calif.
 Ontario Plant Foods, Ltd., Delhi, Ont., Canada
 Orange Belt Supply Co., Lindsay, Calif.
 Orchard Supply Co., San Jose, Calif.
 Oregon Portland Cement Co., Portland & Oswego, Oreg.
 Oregon-Washington Fertilizer Co., Seattle, Wash.; Port-
 land, Oreg.
 Organic Factors & Chemicals, French Camp, Calif.
 Organic Plant Food Co., Lancaster, Pa.

P

Pacific Chemical & Fertilizer Co., Honolulu, 10, Oahu;
 Hilo, Hawaii; Kahului, Maui; Puhā, Kawai, T. H.
 Pacific Coast Fertilizer Co., Thermopolis, Wyo.
 Pacific Guano Co., Berkeley & Los Angeles, Calif.;
 Tolleson, Ariz.
 Pacific Supply Cooperative—Chemical Div., Portland,
 Madras & Ontario, Oreg.
 Pamplico Fertilizer Co., Inc., Pamplico, S. C.
 Parco, Inc., Los Angeles, Calif.
 Pasco Packing Co.—Fertilizer Div., Dade City, Fla.
 Pearsall & Co., Wilmington, N. C.
 F. H. Peavey Co., Minneapolis, Minn.
 Peavey Fertilizer Plant—Div. F. H. Peavey Co., Fargo,
 N. Dak.
 Peerless Fertilizer Co., Chestertown, Md.
 Pelham Phosphate Co., Pelham, Ga.
 Pendleton Oil Mill, Inc., Pendleton, S. C.
 Peninsular Fertilizer Works—Div. Wilson & Toomer,
 Inc., Tampa, Fla.
 Pennsylvania Farm Bureau Cooperative Assn., Harris-
 burg, Pa.; Curtis Bay, Md.
 Pennsylvania Fruit Co., Inc., Philadelphia, Pa.
 People's Fertilizer Co., Foley, Ala.
 Peterman Agricultural Co., Peterman, Ala.
 James S. Peters Fertilizer Co., Manchester, Ga.
 Robert B. Peters Co., Allentown, Pa.
 Phillips Chemical Co., Bartlesville, Okla.
 Dr. P. Phillips Fertilizer, Inc., Orlando, Fla.
 Phoenix Chemical Co., Phoenix, Ariz.
 Phosphate Minerals, Inc., Kemmerer, Wyo.
 Piedmont Fertilizer Co., Inc., Opelika, Ala.
 Piedmont Fertilizer Corp., Greenwood, S. C.
 Pierce Phosphorus, Pierce, Fla.
 J. L. Pilcher & Sons, Inc., Meigs, Ga.
 The Pine Level Oil Mill Co., Pine Level, N. C.
 Pinellas Growers Assn. Fertilizer Works, Clearwater, Fla.
 Pioneer Phosphate Co., Inc., Des Moines, Iowa
 Plantabbs Corp., Baltimore, Md.
 Plant Food Corp., Los Angeles, Bakersfield & Pomona,
 Calif.
 Plantsmiths, Palo Alto, Calif.
 Plant Products Corp., Blue Point, N. Y.
 Planters Cotton Oil & Fertilizer Co., Rocky Mount &
 Scotland Neck, N. C.
 The Planters Exchange, Inc., Havana, Fla.
 Planters Fertilizer & Phosphate Co., Charleston, S. C.;
 Charlotte, N. C.
 Planters Fertilizer & Soybean Co., Pine Bluff, Ark.
 Planters Warehouse & Loan Co., Fitzgerald, Ga.
 Planters Warehouse Co., Newborn, Ga.
 Plymouth Citrus Growers Assn., Plymouth, Fla.
 Polk County Fertilizer Co., Haines City, Fla.
 Henry A. Pollak & Co., Hicksville, L. I., N. Y.
 Port Fertilizer & Chemical Co., Los Fresnos, Texas
 Portland Rendering Co., Portland, Maine
 Potash Co. of America, Carlsbad, N. M.
 Premier Peat Moss Corp., New York, N. Y.
 Brice Presby & Son, Joseph, Utah
 Price Chemical Co., Louisville, Ky.
 Warner W. Price Co., Inc., Smyrna, Del.
 Chas. W. Priddy & Co., Norfolk, Va.
 A. F. Pringle & Co., Inc., Charleston, S. C.
 "Pronto" Liquid Fertilizer Corp., Eunice, La.
 Producers Supply, Inc., Palmetto, Fla.
 Productora de Ácidos y Fertilizantes, S. A., Habana, Cuba
 Productora de Superfosfatos, S. A., Habana, Cuba
 Pulse Phosphate Co., Canton, Mo.



Quaker Oats Co., (See Coast Fisheries)

R

Rabb & Smith, Inc., Fountain Inn, S. C.
 The Ramsburg Fertilizer Co., Frederick, Md.
 Ra-Pid-Gro Corp., Dansville, N. Y.
 The Rath Packing Co., Waterloo, Iowa
 E. Rauh & Sons Fertilizer Co., Indianapolis, Ind.; Silica, Ohio; Plymouth, Ind.
 Ravel Brothers, Inc., Albuquerque, N. M.
 Read Bros. Fertilizers, Ltd., Elmira, Ont., Canada.
 Reading Bone Fertilizer Co., Reading Pa.
 John Reardon & Sons, Cambridge, Mass.
 Red Star Fertilizer Co., Sulphur Springs, Texas
 Redwine Bros., Fayetteville & Tyrone, Ga.
 Reed & Perrine, Inc., Tennent, N. J.
 Robert A. Reichard, Inc., Allentown, Pa.
 The Reliance Fertilizer Co., Savannah, Ga.
 Reliance Fertilizer & Lime Corp., Norfolk, Va.
 Reliance Guano Co., Inc., Whiteville, N. C.
 Richmond Guano Co., Richmond, Va.
 Ricks Fertilizer Co., Mount Olive, N. C.
 Ridge Fertilizer Co., Lake Wales, Fla.
 Ridge Fertilizer Co., Johnston, S. C.
 Riverside Fertilizer Factory, Marks, Miss.
 Riverside Fertilizer Works, Riverside, Calif.
 Roanoke Guano Co., Roanoke, Ala.
 Robertson Chemical Corp., Norfolk & South Hill, Va.; Raleigh, Statesville & Wilmington, N. C.
 Robertson Fertilizer Co., Clayton, Ala.
 Robeson Manufacturing Co., Lumberton, N. C.
 Roche Manufacturing Co., Dublin, Ga.
 The Rogers & Hubbard Co., Portland & Middletown, Conn.
 Rose Manufacturing Co., Beacon, N. Y.
 Rose City Cotton Oil Mill Co., Little Rock, Ark.
 Ross Fertilizer Co., Clinton, N. C.
 Roux Feed Mill, Sharon, Pa.
 Rowe Warehouse & Fertilizer Co., Athens, Ga.
 Rowland & Gordon Co., Plainview, Texas
 N. Roy & Son, Attleboro, Mass.
 F. S. Royster Guano Co., Norfolk, Va.; Bessemer & Montgomery, Ala.; Atlanta & Macon, Ga.; Indianapolis, Ind.; Baltimore, Md.; Jackson, Miss.; Lyons, N. Y.; Charlotte & Wilmington, N. C.; Toledo, Ohio; Charleston & Spartanburg, S. C.; Buell (Norfolk), Lynchburg & S. Norfolk, Va.; Madison, Wisc.
 Ruhm Phosphate & Chemical Co., Columbia, Tenn.
 Ruston Oil Mills & Fertilizer Co., Ruston, La.
 Russell Fertilizer Works, Williamson & Union Hill, N. Y.
 Rutledge Manufacturing Co., Rutledge, Ga.

S

Sacramento Valley Milling Co., Glenn, Calif.
 Sagadahoc Fertilizer Co., Inc., Bowdoinham, Maine
 Salley Gin & Fertilizer Co., Salley, S. C.
 Salmon By-Products Co., Inc., Ketchikan, Alaska
 Keys Sanders Fertilizer Co., Gaffney, S. C.
 San Francisco Chemical Co., Sage, Wyo.
 San Jacinto Chemical Co.—Div. Smith-Douglass Co., Inc., Houston, Texas
 San Miguel Fertilizer Corp., San Juan, P. R.
 Santee Guano Co., Greeleyville, S. C.
 Sapona Mills, Inc., Sanford, N. C.
 Schaffner Bros. Co., Erie, Pa.
 Schrock Fertilizer Service—Div. Schrock Bros. Co., Congerville, Ill.
 O. M. Scott & Sons Co., Marysville, Ohio
 Screven Oil Mill, Sylvania, Ga.
 Scioto Farm Chemicals, Inc., Chillicothe, Ohio
 Seaboard Phosphate Co., Dunnellon, Fla.

Senesac Soil Service, Fowler, Ind.
 Shea Chemical Corp., Baltimore, Md.; Jeffersonville, Ind.; Adams, Mass.; Columbia, Tenn.
 Shell Chemical Corp., New York, N. Y.; Pittsburg & San Francisco, Calif.
 Shepard Fertilizer Co., Moultrie & Doerun, Ga.
 Shields Co., Scotland Neck, N. C.
 M. L. Shoemaker Co., Philadelphia, Pa.
 Shore Fertilizer Co., Plant City, Fla.
 Shreveport Fertilizer Works, Shreveport, La.
 Shur-Crop Corp., Monroe, Wash.
 Shur-Gain, Inc., Presque Isle, Me.
 Simplot Soil Builders—Div. J. R. Simplot Co., Pocatello, Caldwell, Idaho Falls, Rupert & Twin Falls, Idaho; Swink & Greeley, Colo.; Klamath Falls, Oreg.; Walla Walla, Wash.
 Singletary Fertilizer Co., Lake City, S. C.
 J. F. Sloan Co., Salinas, Calif.
 L. B. Skinner Co., Inc., Dunedin, Fla.
 The Smith Agricultural Chemical Co., Columbus & Carey, Ohio; Indianapolis, Ind.; Holland & Saginaw, Mich.
 The C. D. Smith Co., Agric. Div., Grand Junction, Colo.
 C. O. Smith Guano Co., Moultrie & Douglas, Ga.
 Smith-Douglass Co., Inc., Norfolk, Va. Streater, Ill.; Albert Lea, Minn.; Kinston & Wilmington, N. C.; Danville, Va.
 Smith Fertilizer Co., Statesboro, Ga.
 Smith Fertilizer Co., Williston, S. C.
 Smith-Rowland Co.—Div. Smith-Douglass Co., Inc., Norfolk, Va.; Selbyville, Del.; Granite City, Ill.
 Smoky Mountains Fertilizer Co., Waynesville, N. C.
 Snyder Chemical Co., Inc., Topeka & Hutchinson, Kans.
 Soil Builders, Inc., Dunnellon, Fla.
 Soil Service, Denton, Md.
 Soilife, Inc., Boise, Idaho
 Soilstone Fertilizer Co., Lincoln, Nebr.
 Soluble Plant Nutrients Co., Azusa, Calif.; Augusta, Kansas
 Soperton Guano Co., Soperton, Ga.
 South Jersey Farmers Exchange, Woodstown, N. J.
 South Lake Fertilizer Works, Oakland, Fla.
 Southern Agricultural Fertilizer Co., Clarksdale, Miss.
 Southern California Fertilizer Co., Los Angeles, Calif.
 The Southern Cotton Oil Co., New Orleans, La.; Birmingham, Cullman, Decatur, Montgomery, Ala.; Little Rock, Ark.; Pensacola, Fla.; Cartersville, Columbus, Cordele, Dawson, Dublin, Ft. Gaines, McRae, Macon & Warrenton, Ga.; Davidson, Gibson, Goldsboro, Rocky Mount, Shelby & Wilson, N. C.; Columbia, Florence, Laurens, Spartanburg & Sumter, S. C.; Memphis, Tenn.
 Southern Fertilizer & Chemical Co., Savannah & Atlanta, Ga.; Charleston & Roebuck, S. C.
 Southern Florida Fertilizer Co., Goulds, Fla.
 Southern Guano Co., Winder, Ga.
 Southern Oregon Sales, Inc., Medford, Oreg.
 Southern States Phosphate & Fertilizer Co., Savannah, Ga.
 Southwest Chemical Co., Inc., McAllen, Texas
 Southwest Co-Operative Wholesale, Phoenix, Ariz.
 Southwest Fertilizer & Chemical Co., El Paso, Clint & Pecos, Tex.; Anthony, N. M.
 Southwest Potash Corp., New York, N. Y.; Carlsbad, N. M.
 Southwest Virginia Cooperative, Inc., Bristol, Va.
 Southwestern Supply Co.—Div. Wilbur-Ellis Co., Los Angeles & Chula Vista, Calif.; Glendale, Ariz.
 Spencer Chemical Co., Kansas City, Mo.; Calumet City, Ill.; Pittsburg, Kans.; Henderson, Ky.; Vicksburg, Miss.
 Spokane Portland Cement Co., Spokane, Wash.
 Springfield Rendering Co., Springfield, Mass.
 The Stadler Fertilizer Co., Cleveland, Ohio



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A source of highly available
phosphorus for formulating
livestock and poultry feeds

CORONET PHOSPHATE COMPANY

A Division of Smith-Douglass Company, Incorporated
NORFOLK 1, V A.

Standard Chemical Co., Troy, Ala.
 Standard Fertilizer Co., Meigs, Ga.
 Stanton Co., Holland, Mich.
 Staple Cotton Cooperative Assn., Greenwood, Miss.
 Star Fish & Bone Fertilizer Co., Bridgeton, N. J.
 Stauffer Chemical Co., San Francisco, Richmond & Vernon, Calif.; N. Portland, Oreg.; Tacoma, Wash.
 Steel Co. of Canada, Ltd., Hamilton, Ont., Canada
 E. B. Stone & Son, Salinas, Calif.
 William Stone Sons, Ltd., Ingersoll, Ont., Canada
 R. F. Strickland Co., Concord, Ga.
 Summers Fertilizer Co., Inc., Baltimore, Md.; Bangor, Calais, Caribou, Houlton, Mars Hill & Sandy Point, (Stockton) Maine; Grand Forks, N. D.; McKeesport, Pa.; Sioux Falls, S. D.; Saint Stephen, N. B., Canada
 Sumter Fertilizer Manufacturing Co., Sumter, S. C.
 Sunland Industries, Inc., Fresno, Calif.
 Sunshine Plant Food Co., Inc., Clovis, N. M.
 Superior Fertilizer Co., Peterman, Ala.
 Superior Fertilizer & Chemical Co., Tampa, Fla.
 Superior Phosphate Co., Dunnellon, Fla.
 Super-A Fertilizer Works, Inc., Mayaguez, P. R.
 Supreme Feed & Fertilizer Co., Philadelphia, Miss.
 Swack Fertilizer Co., Du Bois, Pa.
 Swedish Shale Oil Co., Kvantorp, Sweden
 Swift & Co.—Plant Food Div., Chicago, Ill.; Hayward, Los Angeles, Calif.; Bartow & Winter Haven, Fla., Albany, Atlanta, LaGrange & Savannah, Ga.; Calumet City & National Stock Yards, Ill.; Mason City, Iowa; Harvey & Shreveport, La.; Curtis Bay, Md.; Greensboro & Wilmington, N. C.; Cleveland & Greenville, Ohio; North Portland, Oreg.; Columbia, S. C.; Houston, Tex.; Norfolk, Va.; Madison, Wisc.; Toronto, Ont., Canada
 Swift Canadian Co., Ltd., Toronto, Ont., Canada
 Sylacauga Fertilizer Co., Sylacauga, Ala.
 Syracuse Rendering Co., Syracuse, N. Y.

T

T & K Fertilizer Co., Union City, Tenn.
 Tank Fertilizers, Inc., Brawley, Calif.
 John Taylor Fertilizer Co., Sacramento, Calif.
 T. F. Taylor Fertilizer Works, Moultrie, Ga.
 "10-E. M." Plant Food, Miami, Fla.
 Tennessee Corp., New York, N. Y.; E. Tampa, Fla.; Attalla & Tuscaloosa, Ala.; Cedartown, East Point & Gainesville, Ga.; New Albany, Ind.; Lockland, Ohio
 Tennessee Farmers Cooperative, LaVergne & Tenco, Tenn.
 Tennessee Plant Food Co., Clarksville, Tenn.
 Tennessee Valley Cooperatives, Decatur, Ala.
 Terra Food Fertilizer Co., El Monte, Calif.
 The Terre Co., Rochelle Park, N. J.; Totowa, N. J.
 Texas Farm Products Co., Nacogdoches, Texas
 Texas Liquid Fertilizer Co., Inc., La Feria, Texas
 I. P. Thomas & Son Co., Camden & Paulsboro, N. J.
 Thomasville Fertilizer Co., Thomasville, Ga.
 W. B. Tilghman Co., Inc., Salisbury & Pocomoke City, Md.
 Toledo Div. Sewage Disposal, Toledo, Ohio
 Toney Bros., Doreun, Ga.
 Trenton Bone Fertilizer Co., Trenton, N. J.
 The Triangle Co., Salinas, Calif.
 Tri-State Chemical Co., Henderson, Ky.
 Tri-State Chemical Co., Webb City, Mo.; Springdale, Ark.
 Tri-State Milling Co., Rapid City, S. D.
 Trueman Fertilizer Co., Jacksonville, Fla.
 F. W. Tunnell & Co., Inc., Phila., Pa.
 Turner Fertilizer Co., McDonough, Ga.
 Tuskegee Oil & Fertilizer Co., Tuskegee, Ala.
 Tyler Fertilizer Co., Tyler, Texas
 Tyler Grain & Fertilizer Co., Wooster & Weilersville, Ohio
 J. A. Tyler and Sons, Wagener, S. C.

U

Union Fertilizer Co., Cullman, Ala.
 Union Fertilizer Co., Richmond, Calif.
 Union Oil Mills, Union, S. C.
 United By-Products Co., Hackettstown, N. J.
 United Cooperatives of Ontario, W. Toronto & Thamesville, Ont., Canada
 United Fertilizer Co., Carrollville, Wisc.
 U. S. Phosphoric Products—Div. Tennessee Corp., Tampa, Fla.
 United Sulphur Co., Los Angeles, Calif.
 U. S. Potash Co., Inc., New York, N. Y.; Carlsbad, N. M.
 United States Steel Corp., Pittsburgh, Pa.
 Utah Idaho Sugar Co., Idaho Falls, Idaho

V

E. S. Valliant & Son, Inc., Centerville, Md.
 Valliant Fertilizer Co., Laurel, Del.
 Valley Chemical Co.—Div. Mississippi River Fuel Corp., St. Louis, Mo.
 Valley Fertilizer & Chemical Co., Inc., Mt. Jackson, Va.
 Valley Fertilizer Co., Aliceville, Ala.
 Valley Fertilizer Co., Alamosa, Colo.
 Valley Fertilizer Co., Greenville, Miss.
 Valley Wholesale & Warehouse Co., Ontario, Oreg.
 The Vance Co., Inc., Chilhowie, Va.
 H. H. Van Gorden & Sons, Neillsville, Wisc.
 Victor Chemical Works, Chicago, Ill.
 Victor Fertilizer Co., Chester, S. C.
 Vidalia Chemical Co., Vidalia, Ga.
 Vidette Fertilizer Co., Louisville & Vidette, Ga.
 Virginia-Carolina Chemical Corp., Richmond, Va.; Birmingham, Dothan, Mobile, Montgomery & Wylam, Ala.; N. Little Rock, Ark.; Jacksonville & Nichols, Fla.; Orlando, Fla.; Albany, Atlanta, Augusta, Rome & Savannah, Ga.; E. St. Louis, Ill.; Ft. Wayne, Ind.; Dubuque, Iowa; Hopkinsville & Louisville, Ky.; Shreveport, La.; Baltimore, Md.; Jackson, Miss.; Carteret, N. J.; Charlotte, Durham, Greenville, New Bern, Selma, Wadesboro & Wilmington, N. C.; Cincinnati, Ohio; Charleston & Greenville, S. C.; Memphis & Mt. Pleasant, Tenn.; Waco, Tex.; Lynchburg, Norfolk, Petersburg & Portsmouth, Va.
 Vitalerth Products, Ltd., Vancouver, B. C., Canada

W

Wadesboro Fertilizer Co., Wadesboro, N. C.
 Waldo Fertilizer Works, Waido, Ark.
 Walker Fertilizer Co., Orlando, Fla.
 Wallace Guano Co., Smithfield, N. C.
 I. G. Wallace & Son, Matthews, N. C.
 Walla Walla Meat & Cold Storage Co., Walla Walla, Wash.
 Oscar F. Warner Landscape Forester, Waterbury, Conn.
 Warren Cotton & Fertilizer Co., Inc., Warrenton, N. C.
 Warren Cotton Oil & Manufacturing Co., Warren, Ark.
 Warrior Fertilizer Co., Northport, Ala.
 Wasatch Chemical Co., Salt Lake City, Utah
 Washington Liquid Fertilizer Co., Wapato, Wash.
 Washington Organic Fertilizer Co., Yakima, Wash.
 Waverly Fertilizer Works, Waverly, Fla.
 Wayne-Bush Feed Co., Ft. Wayne, Ind.
 Waynesboro Fertilizer Co., Waynesboro, Ga.
 Weaver Fertilizer Co., Norfolk, Va.; Winston-Salem, N. C.
 The Weaver Tankage Corp., Norfolk, Va.
 Webfoot Fertilizer Co., Inc., Portland, Oreg.
 Wedgeworth's, Inc., Belle Glade, Fla.
 Weil's Fertilizer Works, Inc., Goldsboro, N. C.
 Welcome Agricultural Chemical Co., Welcome, Minn.
 Wells & Wade, Inc., Wenatchee, Wash.
 West Coast Fertilizer Co., Tampa, Fla.

West Tennessee Tankage Co., Union City, Tenn.
 Western Carolina Phosphate Co., Waynesville, N. C.
 Western Farm Chemical Co., Woodland, Calif.
 Western Fertilizer Co., Inc., Muleshoe, Texas.
 Western Fertilizers, Harlowton, Mont.
 Western Phosphates, Inc., Garfield, Utah
 Westminster Fertilizer Co., Westminster, Md.
 Westminster Gin & Fertilizer Co., Westminster, S. C.
 Wheeler Fertilizer Co., Oviedo, Fla.
 White Star Concentrates Co., Portland, Oreg.
 Whitehead & Gholston, Comer, Ga.
 Wichita Fertilizers, Inc., Wichita, Kansas.
 Whitley Chemical Corp., Milan, Ill.
 Wilbur-Ellis Co., Los Angeles, Calif.; Portland, Oreg.;
 Seattle, Wash.
 Wilde Farm Supply Co., Inc., Vineland, N. J.
 Williston Fertilizer Works, Williston, S. C.
 Wilmington Fertilizer Co., Wilmington, N. C.
 Andrew Wilson, Inc., Springfield, N. J.
 Wilson & Co., Chicago, Ill.
 Wilson & Toomer Fertilizer Co., Jacksonville, Cotton-
 dale, & St. Petersburg, Fla.
 Wisconsin Farmco Service Cooperative, Madison, Antigo,
 Green Bay, Prairie du Chein & Whitewater, Wisc.
 Wisconsin Plant Food, Inc., Watertown, Wisc.
 Witts Fertilizer Works, Ltd., Norwich, Ont., Canada
 Wood Chemical Co., Lubbock, Texas
 Woodburn Feed & Supply Co., Woodburn, Oreg.
 Woodrow Fertilizer Co., Oswego, S. C.
 The Woodruff Fertilizer Works, Inc., North Haven, Conn.
 The Woodville Lime Products Co., Toledo & Woodville,
 Ohio
 A. S. Wooley Co., Inc., Seaford, Del.
 Worcester Fertilizer Co., Snowhill, Md.
 Chas. P. Wray & Co., Ridgeway, S. C.
 Wyocena Farmers Co-Operative Co., Wyocena, Wisc.

Y-Z

Yakima Valley Spray Co., Yakima, Wash.
 Yamada Co., Gardena, Calif.
 Lewis Yoder Co., Inc., Nampa, Idaho
 York Stone & Supply Co., York, Pa.
 Gordon Young, Ltd., Toronto, Ont., Canada
 Yuba City Mills, Yuba City, Calif.
 Zalzo y Martinez, S. A., Havana, Cuba
 Zebulon Ginning & Fertilizer Co., Zebulon, Ga.

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DIRECTORY FERTILIZER MANUFACTURERS

If any names have been omitted, either inadvertently or through lack of information from the manufacturer, the publishers will be glad to receive corrections for publication in the next issue of Commercial Fertilizer Year Book.

The names in the following pages have been classified and each classification indicated as follows: (Capacity figures supplied by Manufacturers.)

A—Complete plant manufacturing sulphuric acid, superphosphate, and mixed fertilizers.

B—Manufacture superphosphate and mixed fertilizers.

C—Manufacture fertilizer (but not superphosphate or sulphuric acid).

D—Sell complete goods manufactured for us under our brand name.

E—Sell farm equipment (application, distribution, etc.)

F—Offer fertilizer spreader service.

G—Sell Liquid Fertilizer.

H—Apply liquid fertilizer on a custom basis.

I—Formulate pesticides

J—Buy these chemicals already blended.

ALABAMA

ALICEVILLE

CD—Valley Fertilizer Co.

Box 488; tel: 4766. J. B. Cunningham, Pres. & Pur. Agt.; J. L. Parker, V.P.; John E. Lee, Treas.; John S. Park, Sec. & Plant Mgr.; Joe F. Stewart, Supt. 12,000 tons. 1 mill; belt conveyors.

ANDALUSIA

CFIJ—Covington Fertilizer Co.

Tel: 1082. C. F. Booth, Pres. & Plant Mgr.; Lamar Cantelou, V.P.; J. D. Law, Jr., Sec.-Treas. 3,000 tons expected. (Facilities for 8,000 tons.) 1 Atlanta Utility mill; Continental belt conveyors.

ATTALLA

C—Tennessee Corp.

(Main ofc: New York, N. Y.) J. K. Plummer, Gen. Mgr.

BESSEMER

B—F. S. Royster Guano Co.

(Main ofc: Norfolk, Va.; Sales ofc: Montgomery, Ala.) J. G. Bruce, Jr., Supt. 40,000 tons.

BIRMINGHAM

C—Armour Fertilizer Works

(Main ofc: Atlanta, Ga.) A. G. Henry, Div. Mgr.

C—The Southern Cotton Oil Co.

P. O. Box 2351; tel: 92105. (Main ofc: New Orleans, La.) S. F. Hosey, Mgr.

A—Virginia-Carolina Chemical Corp.

Sales ofc. tel: 9-2181 & LD 9993; factory tel: 9-8452. (Main ofc: Richmond, Va.)

CLANTON

CF—Clanton Fertilizer Co., Inc.

C. W. Ballard, Pres. & Pur. Agt.; E. N. Lane, V.P.; H. D. Ballard, Sec.-Treas., Pur. Agt. & Prod. Mgr. 15,000 tons.

CLAYTON

C—Robertson Fertilizer Co.

Wm. H. Robertson, Pres., Treas. & Prod. Mgr.; J. H. Knight, V.P. & Sec.; E. H. Nolin, Supt. 1,000 tons.

COLUMBIA

C—Bell Fertilizer Co.

Tel: 2851. Claude H. Bell, Pres. & Gen. Mgr.; Miss Martha Jane Bell, V.P.; Mrs. Ruby M. Bell, Sec.-Treas.; Floyd Calhoun, Supt. 10,000 tons. Overhead belt conveyors; non-automatic hopper.

CULLMAN

C—International Minerals & Chemical Corp.

Box 297; tel: 103. (Main ofc: Chicago, Ill.) C. L. Stewart Mgr.; James Q. Stamphill, Asst. Mgr.

D—The Southern Cotton Oil Co.

P. O. Box 382; tel: 960. (Main ofc: New Orleans, La.) F. W. Hurston, Dist. Mgr. for manufacture and sales at following points: Andalusia, Birmingham, Cullman, Decatur, Huntsville, Lafayette, Montgomery, Rockford, Sheffield, Talladega, and Tuscaloosa, Ala.; Pensacola, Fla.; Columbus, Miss.

Union Fertilizer Co.

C. L. Stewart, Mgr.

DADEVILLE

CDHFJ—Dadeville Fertilizer & Gin Co.

C. T. Cox, Pres.; C. T. Cox, Jr., V.P.; Barnes M. Cox, Sec.-Treas. 10,000 tons.

DECATUR

C—Decatur Fertilizer Co.

Tel: 1076. A. A. Jones, Pres.; J. H. Jones, V.P.; A. A. Jones, Jr., Sec.-Treas.; Earnest McAbee, Supt. 10,000 tons. 1 mill.

C—The Southern Cotton Oil Co.

P. O. Box 98; tel: 10. (Main ofc: New Orleans, La.) T. M. Harvey, Mgr.

BJ—Tennessee Valley Cooperatives

P. O. Box 291. G. L. Braly, Pres.; R. T. Kernachan, V.P.; E. P. Garrett, Sec.-Treas. & Pur. Agt.; R. C. Bibb, Plant Mgr.; Claude Fisher, Mgr. Pesticide Div. 30,000 tons. 1 mixing mill & 2 sacking mills; belt conveyors and hopper system for batching.

DOTHAN

CD—Dothan Guano Co.

Box 1158; tel: 0-29720, F-37500. A. A. Morris, Gen. Mgr., Prod. Mgr. & Pur. Agt.; L. J. Thomas, Asst. Mgr.; H. D. Meeks, Supt. 20,000 tons. 5 mills; belt conveyors; hopper system and double sacking on one machine.

A—The Home Guano Co.

P. O. Box 577; Porter-Farmer Blvd.; tel: 20900. John C. Curry, Pres.; J. Ross Hanahan, V.P.; M. L. Hanahan, Jr., Treas., Gen. Mgr., Prod. Mgr. & Pur. Agt.; B. M. Hanahan, Sec.; R. C. Geiger, Supt. 30,000 tons.

A—Virginia-Carolina Chemical Corp.

Tel: 2-2445. (Main ofc: Richmond, Va.)

EUFAULA

CFJ—Eufaula Cotton Oil Co.

Orange & Barbour St. M. H. Conner, Pres.; H. H. Conner, Jr., Mgr.; H. C. Conner, Sec.-Treas.; Rex Metcalf, Supt. 10,000 tons. 1 mill; 2 belt conveyors; home-made hopper system; bulk loading facilities.

FAYETTE

CD—Fayette Mill, Gin & Ice Co., Inc.

Mrs. A. M. Grimsley, Pres.; A. M. Grimsley, Jr., V.P.; J. J. Taylor, Sec.-Treas. & Pur. Agt.; Malden Taylor, Prod. Mgr. 3,500 tons.

FLORENCE

B—International Minerals & Chemical Corp.

(Main ofc: Chicago, Ill.) B. V. Bender, Dist. Sales Mgr.; E. N. James, Supt.

FOLEY

C—People's Fertilizer Co.
W. R. Stuart, Pres.; J. R. Harding,
V.P.; R. C. Harding, Jr., Asst.
Treas. 15,000 tons.

GREENVILLE

CDFJ—Greenville Plant Food Co.
P. O. Box 352; tel: 646. R. B. Anderson
(Andalusia, Ala.), Pres.; E. H. Anderson & J. A. Anderson,
(Hartford, Ala.), V.P.; Julian Maddox
(Luverne, Ala.), Sec.-Treas. &
Pur. Agt.; K. B. Maddox, Gen.
Mgr. & Prod. Mgr.; Ernest H.
Perry, Supt. 15,000 tons.

HEADLAND

C—Espy Fertilizer Co., Inc.
Tel: 3832. M. W. Espy, Pres. & Pur.
Agt.; F. E. Sidney, V.P.; A. S.
Hodges, Sec.-Treas.; E. M. Royals,
Prod. Mgr. & Foreman; C. Cunningham,
Supt. 10,000 tons. 2 mills,
10,000 & 5,000 tons; belt conveyors.

CF—Home Fertilizer & Cotton Oil
Co., Inc.

E. R. Solomon, Pres. Mgr. & Pur.
Agt.; Elsie B. Solomon, V.P. &
Treas.; R. S. Shelley, Jr., Asst.
Mgr.; T. L. Killingsworth, Plant
Mgr. 10,000 tons.

HURTSBORO

C—Hurtsboro Fertilizer Co.
S. B. Williams, Owner & Mgr. 2-
000 tons. 1 mill.

MOBILE

CH—McMillan & Harrison Fertilizer
Co.

S. K. Smith (Pur. Agt.), & Horace
L. Long, Ptnrs. 10,000 tons.

A—Virginia-Carolina Chemical Corp.
Tel: 56-6561. (Main ofc: Richmond,
Va.)

MONTGOMERY

C—Alabama Fertilizer Co.
John R. Hudson, Pres.; Mark J.
Bridges, Mgr. 15,000 tons.

A—The American Agricultural
Chemical Co.

Box 911. (Main ofc: New York,
N. Y.) W. B. Walker, Mgr.; T. D.
Conner, Supt.

C—Armour Fertilizer Works
(Main ofc: Atlanta, Ga.) R. A.
Ellington, Div. Mgr.

B—Capital Fertilizer Co.
(Main ofc: New York, N. Y.) E. T.
Spidle, Gen. Mgr. 50,000 tons.

B—International Minerals & Chemical
Corp.

P. O. Box 829. (Main ofc: Chicago,
Ill.) Evans Vaughan, Sales Mgr.;
J. B. Denby, Supt.

B—F. S. Royster Guano Co.
(Main ofc: Norfolk, Va.) J. R.
Pratt, Sales Mgr.; D. L. Thames,
Supt. 40,000 tons.

C—The Southern Cotton Oil Co.
P. O. Box 115; tel: 23811. (Main
ofc: New Orleans, La.) G. Tatum,
Jr., Mgr.

B—Virginia-Carolina Chemical Corp.
Tel: 2-2741, 2-2742 & LD 25; factory
tel: 2-3326. (Main ofc: Richmond,
Va.)

IJ—Virginia-Carolina Chemical
Corp.—Black Leaf Products Div.
Tel: LD 41 & LD 42. (Main ofc:
Richmond, Va.)

NORTHPORT

C—Warrior Fertilizer Co.
3008 12th St.; tel: 5860. H. H. Maxwell,
Owner & Mgr.; Mrs. Ruby
B. Maxwell, Co-partner. 850 tons.

OPELIKA

CFJ—Alabama Oil & Guano Co.
Tel: 7. C. M. Jernigan, Pres.; Jno.
J. Banks, V.P.; Chas. H. Jernigan,
Treas.; John T. Dorsey, Sec.; Wm.
H. Knight, Plant Mgr. 10,000 tons.
1 mill, 30 tons per hr.; 4 Continental
belt conveyors.

CD—Piedmont Fertilizer Co., Inc.
Tel: 1567. E. F. Jackson, Pres. &
Mgr.; H. C. Jackson, Sec.-Treas. &
Plant Supt. 10,000 tons. 1 mill; belt
conveyors & hopper systems.

PETERMAN

CFGHJ—Peterman Agricultural Co.
P. S. Jackson, Pres.; J. F. Nettles,
V.P. & Pur. Agt.; E. W. Colgin,
Sec.-Treas. 8,000 tons.

CEJ—Superior Fertilizer Co.
P. S. Jackson, Pres.; J. F. Nettles,
V.P. & Prod. Mgr.; Glenn Helton,
Plant Mgr. 10,000 tons.

PHENIX CITY

ADFJ—Chavala Cooperative, Inc.
P. O. Box 125. E. G. Adamson,
Plant Mgr. 10,000 tons.

ROANOKE

BI—Roanoke Guano Co.
Tel: 6241. J. H. Owens, Pres.; W.
H. Wright, V.P.; W. A. Mitchum,
Treas.; D. R. Boyd, Sec.; Dan
Akin, Supt. 20,000 to 25,000 tons.

SELMA

CDJ—Centrals Farmers Co-Op., Inc.
P. O. Box 15; tel: TR 4-9083. S. J.
Hardy, Pres.; J. H. Traylor, V.P.;
J. H. Hain, Sec.-Treas.; E. B. Johnston,
Mgr., Pur. Agt. & Co-Mgr.
Pesticide Div.; H. A. Paine, Prod.
Mgr.; O. S. Frasier, Co-Mgr. Pesticide
Div. 50,000 tons. 4 mills; 4
large belt conveyors; 7 small belt
conveyors.

SYLACAUGA

CDFJ—Sylacauga Fertilizer Co.
H. A. Parker, Pres., Treas. & Pur.
Agt.; O. D. Parker, V.P.; Harry
Appleby, Sec.; A. D. Kilgore,
Supt.; Bill Nichols, Mgr. Pesticide
Div. 20,000 tons.

TROY

B—Alabama Warehouse Co., Inc.
P. O. Box 527. E. C. Bassett, Pres.;
E. F. Dunbar, V.P.; G. M. Panhorst,

Sec.-Treas. & Mgr.; H. M. Rose,
Plant Mgr. 15,000 tons.

A—Standard Chemical Co.

Tel: 52. Fred C. Broadway, Sec.-
Treas. & Gen. Mgr.; Frederick
Henderson, V.P.; E. C. Orme,
Pres.; Louis T. Head, V.P.; E. C.
Thompson, Supt. 75,000 tons.

TUSCALOOSA

C—Tennessee Corp.
(Main ofc: New York, N. Y.) E. T.
Spidle, Gen. Mgr. (Ala. Div.) 25-
000 tons.

TUSCUMBIA

CI—Consumers Bagging Co., Inc.
N. B. Ware, Pres.; N. B. Ware, Jr.,
V.P. & Plant Mgr. Pesticide Div.;
G. W. Schmidt, Treas.; W. A.
Ware, Sec. 1,500 tons.

C—Muscle Shoals Chemical Co.
Tel: 664. N. B. Ware, Ptnr.; N. B.
Ware, Jr., Ptnr., Plant Mgr. & Pur.
Agent; Claud Saint, Prod. Mgr.
10,000 tons. 1 mill; completely convey-
orized; hog & belt feeder for
elevator; Inglett & Corley automatic
bagging unit; conveyor from
bagger to loading dock.

TUSKEGEE

CD—Tuskegee Oil & Fertilizer Co.
J. L. Youngblood, Sr., Prod. Mgr.;
J. O. Youngblood, Jr., Sec.; A. A.
Beasley, Plant Mgr.; 10,000 tons.

WETUMPA

CF—Cantelou-Law Gin & Ware-
house Co.
Tel: 3411. J. D. Law, Jr., Pres. &
Pur. Agt.; Lamar Cantelou, Sec.-
Treas.; L. C. Thornton, Supt. 4,000
tons. 1 mill; continuous ammonia-
tion with augur conveyors.

WYLAM

Virginia-Carolina Chemical Corp.
(Sulphuric Acid Plant Only) Tel:
6-2040. (Main ofc: Richmond, Va.)

ARIZONA

GLENDAL

CGI—Arizona Plant Food Corp.
P. O. Box 217. Harvey Bales, Mgr.
20,000 tons.

Agriform Co., Inc.
(Main ofc: Santa Ana, Calif.)
Wm C. Rockwell, Mgr. 15,000 tons.

CDGHJ—Wilbur-Ellis Co.—(South-
western Supply Co. Div.)
(Main ofc: Los Angeles, Calif.)
5430 W. Bethany Home Rd.; tel:
Yellowstone 7-9221. Fred Nason,
Mgr.; J. D. Hart, Sales Mgr.

PHOENIX

CGIJ—Arizona Fertilizers, Inc.
734 East S. P. Drive; tel: Alpine 4-
5678. F. M. Feffer, Sr., Pres. & Mgr.
Pesticide Div.; F. M. Feffer, Jr.,
V.P., Pur. Agt. & Plant Mgr.; M.
F. Wharton, Sr., Sec.-Treas.;

Alvan VanKirk, Plant Mgr.; M. F. Wharton, Jr., Prod. Mgr. 50,000 tons. 1 mill; Poulsen conveyors & hopper systems.

CGI—Capital Feed & Seed Co.
312 S. 15th Ave.; tel: ALpine 3-1171. Herbert Stein, Pres.; Morton Kleinberg, V.P. & Mgr.; Jas. F. Wolf, Sec.-Treas. & Pur. Agt.; Wm. Keeble, Plant Mgr. & Mgr. Pesticide Div. 10,000 tons.

CFG—Olin Mathieson Chemical Corp.—Agricultural Chemicals Div.
(Main ofc: Little Rock, Ark.) Tel: Bridge 5-5496. L. S. Madsen, Gen. Mgr., Western Div.; M. L. Miller, Plant Mgr.

Phoenix Chemical Co.
Paul E. Cook, Pres.; P. E. Cook, Sr., V.P., Sec.-Treas. 15,000 tons.

CDEGIJ—Southwest Co-Operative Wholesale
1821 E. Jackson St. Orval Knox, Sec.; Joe Huron, Supt. 12,000 to 15,000 tons.

YUMA

CIJ—Arizona Fertilizers, Inc.
P. O. Box 1309. (Main ofc: Phoenix, Ariz.) F. M. Feffer, Sr., Mgr. Pesticide Div.; Charles Lairmore, Ofc. Mgr. 12,000 tons. 1 mill; Poulsen belt conveyors & hopper systems.

ARKANSAS

BLYTHERVILLE

C—Blytheville Fertilizer Corp.
Henderson St.; P. O. Box 619. Charles Rose, Pres.; Chas. C. Laughton, V.P.; Doyle Henderson, Sec.-Treas.; A. O. Hallman, Mgr.; H. E. Graham, Jr., Plant Mgr. 18,000 tons. 2 mills.

EL DORADO

CDE—El Dorado Fertilizer Co.
End S. Madison; P. O. Box 339. J. G. Wepfer, Ptnr. & Pur. Agt.; G. I. Gilmore, Ptnr. & Plant Mgr.; Julia F. Wepfer, Ptnr.; Grace D. Gilmore, Sec.; Felix Harris, Supt. 6,500 tons. 1 mill, 10,000 tons; 2 belt conveyors, two hoppers, three chain conveyors.

Lion Oil Co.
Lion Oil Bldg. T. M. Martin, Pres.; A. F. Reed, Dir. & V.P. (Sales); E. W. Atkinson, Treas.; Jeff Davis, Sec.; J. B. Rogerson, Mgr. of Mfg.; A. M. Sprague, Supt.; R. E. Meinert, Dir. & V.P. (Pur.). 208,000 tons of anhydrous ammonia.

FORT SMITH

C—Fort Smith Cotton Oil Co., Inc.
723 N. 1st; tel: SU 2-0351. W. H. Lillard, Pres.; M. E. Vaughan, Exec. V. P., Plant Mgr. & Pur. Agt.

HELENA

CGJ—Delta Fertilizer Co.
Box 105. Earl Wells, Pres.; Tom Gist, V.P.; F. L. Enlow, Mgr.; J. J. White, Sec.-Treas.; W. L. Lloyd, Plant Mgr.; J. C. Brady, Gen. Mgr. 25,000 tons.

LITTLE ROCK

AEGI—Olin Mathieson Chemical Corp.—Agricultural Chemicals Division
Tel: FRanklin 6-2471. Executive Ofcs: S. L. Nevins, Pres.; S. Cottrell, V.P. & Dir. Oper.; J. Mullen, Jr., Exec. Asst. to Pres.; F. W. Thomas, Jr., Dir. Sales; G. A. Wakefield, Gen. Sales Mgr.; L. O. Behnke, Controller; J. H. McGalin, Western Region Traffic Mgr.; L. C. Miller, Pur. Agt.; E. Hughes, Credit Mgr.; D. B. Dickey, Asst. Mgr. Specialties Dept.; T. W. Crockett, Mgr. Irrig. Dept. Plants located N. Little Rock, Ark.; Pasadena, Texas; Phoenix, Ariz.; Baltimore, Md.; Williamston, N. C.; Lebanon, Pa. Ark. Fert. Div.: R. M. Morehead, Div. Sales Mgr.; R. E. Erwin, Plant Mgr.

C—Rose City Cotton Oil Mill Co.
A. B. Cobb, Pres.; W. G. Alexander, V.P.; W. F. Bates, Sec.-Treas. & Mgr.; J. F. Fowler, Supt. 10,000 tons.

C—The Southern Cotton Oil Co.
P. O. Box 30; tel: FR-20277. (Main ofc: New Orleans, La.) C. M. Smith, Mgr.

MAGNOLIA

C—ARK-LA. Cotton Oil Co.
Joe F. Rushton, Pres.; M. E. Peace, V.P.; W. C. Blewster, Treas.; J. N. Williams, Sec. & Gen. Mgr.; Lee W. Westbrook, Plant Mgr.; J. N. Williams, Pur. Agt. & Mgr. Pesticide Div. 10,000 tons.

NORTH LITTLE ROCK

BG—Arkansas Farmers Plant Food Co.

800 Palm St., P. O. Box 112; tel: WIndsor 5-2341. M. D. Broadfield, Gen. Mgr.; James D. Campbell, Sec.-Treas.; Joe C. Hardin, Pres., Board of Directors; Waldo Frasier, Exec. V.P.; Lloyd A. Dhonau, Sales Dir.; A. N. Gentry, Plant Mgr. 100,000 tons. 3 mills; Atlanta Utility belt conveyors; 7 hoppers; Hough Payloaders.

AEI—Olin Mathieson Chemical Corp.—Agricultural Chemicals Div.

(Plants formerly operated by Ark. Fert. Div., Southern Acid & Sulphur Co. and by Temple Cotton Oil Co.) Tel: WIndsor 5-2351. (Main ofc: Little Rock, Ark.) R. E. Erwin, Plant Mgr. 4 mills, cap. 44, 22, 22 and 37 tons per hr.; bag belt conveyor.

C—Virginia-Carolina Chemical Corp.
Tel: WIndsor 5-9245 & WIndsor 5-1032. (Main ofc: Richmond, Va.)

PINE BLUFF

CG—Planters Fertilizer & Soybean Co.

Geo. H. Dunklin, Mgr.; Wm. H. Dunklin, Asst. Mgr.; J. R. Huneycutt, Plant Mgr.; C. L. Dew, Prod. Mgr. 20,000 tons.

SPRINGDALE

C—Tri-State Chemical Co.

(Main ofc: Webb City, Mo.) Tel: 702. Milo Johnson, Pres.; L. J. Savana, Gen. Supt.; Frank Sizemore, Resident Mgr.; C. H. Casey, Sec.-Treas. 20,000 tons.

TEXARKANA

C—Farmers Fertilizer Co.

P. O. Box 944; tel: 33583. H. J. Trammell, Pres.; J. C. Cabe, V.P.; C. D. Shallenberger, Sec.-Treas.; Roy Cherry, Supt. 20,000 tons. 2 Stedman mills, 30 tons per hr. each; Link-Belt & Hewitt-Robbins belts & hopper; Fertz. Eqpt. & Sales dump systems.

B—International Minerals and Chemical Corp.

(Main ofc: Chicago, Ill.) W. Q. Burns, Area Mgr.; H. E. Brooks, Dist. Sales Mgr.; J. W. McElheney, Supt.

WALDO

C—Waldo Fertilizer Works

Box 117; tel: 3431. W. H. Ellis, Pres., Plant Mgr. & Pur. Agt.; C. D. Shallenberger, V.P.; E. H. Felty, Sec.-Treas.; J. W. Williamson, Prod. Mgr. 10,000 tons. 1 mill; 2 unloading devices (motors, belts & hoppers); 1 long dumping belt.

WALNUT RIDGE

BDG—Ark.-Mo. Plant Food Co., Inc.
L. G. Black, Pres.; Rex L. Morgan, Sales Mgr.; Earl Day, Sec.-Treas.; Fremont Lange, Plant Mgr. 40,000 tons. 2 mills.

WARREN

CD—Warren Cotton Oil & Mfg. Co.

CALIFORNIA

ALTADENA

The Calunite Corp.

General Offices. 3090 Lincoln Ave.; P. O. Box 538, Figueroa Sta.; tel: SYcamore 8-1411. Bradley A. Walker (New York, N. Y.), Pres.; Hugh S. Graham, V.P.—Distr. & Sales; P. A. Holcombe, Sales Mgr.; Raymond V. Testa (New York, N. Y.), Controller; H. O. Day, V.P.—Oper. (Executive offices: New York, N. Y.; mill & mines: Marysville, Utah.) Fertilizers of mixed

alunite, superphosphate & ammonium sulphate: 450,000 tons.

ARLINGTON

CEGH—Ahlsweide Fertilizer Co.

P. O. Box 81; tel: (Riverside, Calif.) 9665. Karl P. Ahlsweide, Owner. 3,000 tons.

AZUSA

C—The Calunite Corp.

1025 Crescent Dr. (Main ofc: Altadena, Calif.) Tom Barnard, Supt. (Contract production by Growers Chemical Supply Co.)

CFJ—Growers Chemical Supply Co.

930 W. 10th St.; tel: EDgewood 4-4995. (Plant) T. A. Barnard, Pres. 10,000 tons.

Soluble Plant Nutrients Co.

P. O. Box 305; 471 Foothill Blvd. J. J. Johnson, 25,000 tons. Plant also at Augusta, Kans.

BAKERSFIELD

CJ—International Fertilizer & Feed Co.

P. O. Box 62; tel: FA 3-7506. Harry Amenta, Pres.; Herman L. Boyd, Sec.; Samuel J. Amenta, Treas.; Vincent P. Amenta, Plant Mgr. 25,000 tons.

CGI—Plant Food Corp.

Tel: FAirview 2-2735. (Main ofc: Los Angeles, Calif.) J. J. Bingham, Mgr.

BERKELEY

CFGIJ—Pacific Guano Co.

1832 2nd St.; tel: BErkley 7-7120. W. G. Hewitt, Pres. & Gen. Mgr.; H. G. Conley, V.P. & Sou. Div. Mgr.; R. J. Crum, V.P.; G. A. Hall, Sec.; F. W. Doyle, Treas.; P. D. Collins, Supt.; W. C. Leigh, Prod. Mgr.; J. G. Hollingshead, Pur. Agt.; R. B. Bahme, Mgr. Ag. Chem. Dept. 80,000 tons. Branches at Los Angeles, Calif., and Tolleson, Ariz.

BRAWLEY

CG—Tank Fertilizers, Inc.

P. O. Box 176. R. B. Wilson, Pres.; W. F. Aycock, V.P., Treas. & Pur. Agt.; Henry Schreck, Plant Mgr.

BREA

Brea Chemicals, Inc.

(Subsidiary of Union Oil Co. of California) Homer Reed, Pres.; H. R. Fifer, V.P.—Mktg.; Jack Tielrooy, Devel. Mgr.; R. S. Ray Mfg. Mgr.; R. S. Ogilvie, Plant Supt. Mfg. anhydrous ammonia, ammonium nitrate.

CALEXICO

C—Imperial Fertilizer & Sulphur Co., Inc.

P. O. Box 592. Mary L. Myers, Pres. & Gen. Mgr.; T. C. Myers, Sec.-Treas. 25,000 tons.

CAMPBELL

CDFGH—Garden Valley Fertilizer Co.

657 S. San Jose-Los Gatos Hwy.; P. O. Box 522; tel: FR 8-2239. D. L. Watts, Pres.; A. Ferrari, V.P. & Sec.-Treas. 300,000 gal. liq. fert.

CHULA VISTA

CGI—General Fertilizer & Supply Co.

Tel: GARfield 2-2955. P. O. Box 865. Jno. N. Williams, Pres. & Prod. Mgr.; Walter L. Steel, V.P.; R. K. Williams, Jr. Sec.-Treas.; P. F. Edmundson, Supt. 5,000 tons liquid fert. Dry mixer in operation.

Southwestern Supply Co.—Division of Wilbur-Ellis Co.

(Main ofc: Los Angeles, Calif.) 696 Naples St. Frank Scoville, Mgr.

CUPERTINO

10930 N. Highway 9. Paul A. Mariani, Jr.

DOWNEY

CDJ—Downey Fertilizer Co.

9447 E. Imperial Hwy. Ben Mooschekian, Sam Mooschekian, Roy Mooschekian, Ted Mooschekian, Artie Babajian, Arnold Babajian, Chas. Monoogian, Fred Nenmoede, Partners. Roy Mooschekian, Plant Mgr.; Chas. Monoogian, Pur. Agt. 20,000 tons.

EDISON

CDI—AFC, Inc.

P. O. Box 11. James Bonaventura, Pres. & Pur. Agt.; Frank Waterman, Sec.-Treas. & Prod. Mgr.; Fred Bonaventura, Plant Mgr.; Tom Vedder, Mgr. Pesticide Div. 100,000 tons. 1 mill, 100 tons per hr.; belt conveyor; fully mechanized from car to bag or bulk delivery.

CG—B & W, Inc.

P. O. Box 26. Frank Waterman, Pres. & Prod. Mgr.; James Bonaventura, V.P. & Pur. Agt.; William Huber, Plant Mgr. 5,000 tons.

EL MONTE

B—Terra Food Fertilizer Co.

3038 Lower Azusa Rd.; tel: FOrest 8-7674. D. J. Slatery, Pres.; D. D. Foss, V.P. & Sec.-Treas. 10,000 tons. 1 mill.

FRESNO

BCDH—Emco Co.

I. Prandini, Pres.; Mitchell Scaff, V.P.; Leonard Anderson, Ofc. Mgr. 1,000 tons.

CGHIJ—Fresno Agricultural Chemical Co.—Div. Wilbur-Ellis Co.

(Main ofc: Los Angeles, Calif.) P. O. Box 1286; tel: 3-6245. John Parker, Mgr. 2,000 tons. 1 Raymond mill; various belt conveyors and hoppers.

CGH—Modern-Ag Crop Service

2051 Anna St. Partnership—A. V. & C. E. Jenan. H. D. Stephenson, Plant Mgr. 2,000 tons liquid fert.

CFGHIJ—Sunland Industries, Inc.

P. O. Box 1669; tel: FResno 6-9881. B. H. Jones, Pres.; Frank A. Easton & Dr. G. F. MacLeod, V.P.s; Erwin Luttermoser, Sec.-Treas.; Alden Carey, Mgr. Fertz. Div.; Hugo Klein, Plant Mgr.; R. L. Brant, Pur. Agt.; W. L. Piguett, Mgr. Pesticide Div. 20,000 tons.

FRENCH CAMP

Organic Factors & Chemicals

Grayson Hinckley, Jr. Sales Mgr.

GARDENA

CG—Yamada Co.

706 Gardena Blvd. Partnership. George Kuwahara, Nobe Kuwahara, Shoso Kuwahara (Pur. Agt.), Tatsu Kuwahara (Prod. Mgr.). 2,000 to 3,000 tons.

GLENDALE

C—Leon's Horticulture Specialties Co.

433-B West Magnolia Ave. Leon Blasczyk, Owner. 40 tons.

GLENDORA

BCD—Golden State Plant Food Co.

7034 N. Valencia. Herman Sperber, Pres.; Howard H. Hawkins, V.P.; Eugene B. Chewing, Sec.-Treas.; H. H. Hawkins, Plant Mgr. 3,000 tons. 1 mill, 1 ton.

GLENN

CFJ—Sacramento Valley Milling Co.

Wilbur White, Owner; Chas. Baker, Plant Mgr.

HAMILTON CITY

CFG—James Mills Growers Service Co.

James Mills, Jr., Pres.; Fred Shanks, V.P.; Alfred Tisch, Treas. 1,000 tons.

HAWARD

C—Swift and Co., Plant Food Div.

(Main ofc: Chicago, Ill.) 1225 Winton Ave.; Box 540. M. C. McNeil, Mgr.

HOLTVILLE

CEFGHI—Agriform Co., Inc.

(Main ofc: Santa Ana, Calif.) Jno. Galbraith, Sec. & Chief Engr.; Frank E. Kalbaugh, Plant Mgr. 40,000 tons.

LATHROP

B—The Best Fertilizers Co.

(Main ofc: Oakland, Calif.) Calvin Dorrough, Plant Mgr.

LINDSAY

CGJ—California Spray-Chemical Corp.

(Main ofc: Richmond, Calif.) L. R. Hamilton, Supvr. Fertz. Sales.

CDJ—Orange Belt Supply Co.

P. O. Box 246; tel: 2-2574. A. R.

Wakefield, Pres.; R. M. Cook, V.P.; Raleigh Black, Sec.-Treas.; Bruce Graves, Gen. Mgr. 1,500 tons. 1 mill.

LODI

ADFG—Lodi Agriculture Suppliers, Inc.

P. O. Box 272; 11 E. Vine St.; tel: 9-2650. Robert H. Baldocchi, Pres. & Prod. Mgr.; Joseph Baldocchi, V.P., Treas., Plant Mgr. & Mgr. Pesticide Div.; A. W. Geith, Sec. 25,000 tons.

LOS ANGELES

I—American Potash & Chemical Corp.

3030 W. 6th St.; tel: DUnkirk 2-8231. Peter Colefax, Pres.; W. J. Murphy, R. W. Mumford, R. B. Coons, D. S. Dinsmoor, V.P.; T. F. Edson & G. S. Wheaton, Asst. V.P.; L. A. Adams, Treas.; R. J. Hefler, Sec.; R. S. Sunderlin, L. A. Plant Mgr.; L. H. Cornelius, Pur. Agt; W. J. Francis, Pesticide Gen. Sales Mgr.—Western.

CG—Bandini Fertilizer Co.

4139 Bandini Blvd.; tel: AN 3-7391. Byron Reynolds, Pres.; Thos. S. Reynolds, V.P. & Sec.; Jack Baker, Treas.; C. S. Bersche, Plant Mgr.; Jack Baker, Pur. Agt. 30,000 tons.

California Cotton Oil Co.

Robert Ingold, Sec.-Treas.

CD—California Sun Fertilizer Co.

4065 Bandini Blvd.; tel: ANgelus 6196-6197. J. M. Quinn, Owner; E. R. Lindberg, Mgr.; Elston Huston, Supt. 5,000 tons. 1 mill; fork lift Payloader; bulk unloading conveyors; valve packer.

C—Germain's, Inc.

W. E. Hill, Mgr.

Gramercy Park Fertilizer Co.

9836 S. Western Ave. (Zone 44).

CI—Inland Fertilizer Co. (a Corp.)

4134 Bandini Blvd. Mrs. Hazel I. Dunford, Pres.; Jack Dunford, V.P. & Sec.-Treas.; Frank Frazier, V.P. & Gen. Mgr.; Norman McNew, Prod. Mgr. 50,000 tons.

CEFJ—Kellogg Supply Co.

(Main ofc: Wilmington, Calif.) 4130 Bandini Blvd. Rowland E. Myers, Mgr.; Roy Brown, Supt. 30,000 tons.

C—Min-A-Ray Products Co.

1816 W. 8th St.; tel: DUnkirk 2-1470. Mathew P. Thommes, Owner & Mgr. 2,500 tons. 1 mill, 20 tons per day; 1 conveyor; 1 hopper.

CEI—Naco Fertilizer Co.

3345 Medford St. (Main ofc: San Francisco, Calif.) Charles B. White, Mgr. 20,000 tons.

CGHI—Pacific Guano Co.

P. O. Box 3819, Terminal Annex; tel: ANgelus 1-8114. (Main ofc: Berkeley, Calif.) H. G. Conley, V.P. & Sou. Div. Mgr.; C. H. Cornell, Sou. Div. Supt.; John Pataky, Pur.

Agt.; Ben Erickson, Mgr. Pesticide Div. 30,000 tons.

CG—Parco, Inc.

3818 Bandini Blvd. E. Thacher, Pres.; John J. McGrath, V.P. & Treas.; Geo. W. Burch, Sec.; Sales: Ed. A. Thacher. 10,000 tons. 2 mills, 100 tons daily; full conveyors and hoppers for both fertilizer and tankage depts.

CGI—Plant Food Corp.

3711 Medford St.; tel: ANgelus 3-6971. John E. Campbell, Pres.; M. W. Mothershead, V.P. & Sec.; Chas. D. Black, Plant Mgr. 20,000 tons. Plants also at Bakersfield & Pomona, Calif.

C—Southern California Fertilizer Co.

1709 W. 8th St. T. W. Houser, Pres. & Pur. Agt.; W. L. Bremer, V.P.; Irma Jane Brown, Sec.-Treas.; Robert J. Gales, Supt. 8,000 tons.

C—Swift & Co.—Plant Food Div.

4060 E. 26th St. (Main ofc: Chicago, Ill.) Henry C. Hopewell, Mgr.

CG—United Sulphur Co.

3709 Medford St. Harry A. Medley, Pres.

CDFGHJ—Wilbur-Ellis Co.

1206 S. Maple Ave.; tel: RICHmond 5361. Brayton Wilbur, Pres.; Ned Lewis, V.P.; Wm. E. Snyder, Gen. Mgr. & Mgr. Ag. Chem. Dept.; Frank Johnson, Prod. Mgr.; E. V. Walloch, Pur. Agt.; Donald Holland, Supt.; Robert Alland, Mgr. Pesticide Div. 25,000 tons. 2 mills, 12 tons per hour; belt conveyors; Payloaders; hoppers, etc. Plants also at Glendale, Ariz.; Chula Vista & Fresno, Calif.; Portland, Oreg.; Seattle, Wash.

MADERA

CF—Naco Fertilizer Co.

P. O. Box 278. (Main ofc: San Francisco, Calif.) M. J. DeGregori, Mgr.; Leland Radley, Plant Mgr.; Jas. Lee, Prod. Mgr. 20,000 tons.

MODESTO

CFGH—Chemical Fertilizer Co.

P. O. Box 1443. Wayne W. Jones, Mgr.; Lawrence Mann, Supt.; Duncan Sim, Prod. Mgr.; Donald Hicks, Pur. Agt. 15,000 tons.

C—C. H. Haas Co.

P. O. Box 826; tel: Modesto 7-0701. C. H. Haas, Pres.; O. B. Haas, V.P.; John S. Doswald, Plant Mgr. 20,000 tons. (Plant at Ceres, Calif.)

MONROVIA

CG—Liquid Plant Food

1726 S. Magnolia. R. J. Nichols, Pres. & Plant Mgr.; C. E. Blankenship, Prod. Mgr.; Ruth A. Nichols, V.P.; Robt. A. Nichols, Sec. 500,000 gal. liq. fertz.

MOUNTAIN VIEW

CDFGI—A. L. Castle, Inc.

P. O. Box 308. Thomas S. Castle, Pres.; B. L. Wilson, V.P. 6,000 tons.

OAKLAND

B—The Best Fertilizers Co.

1459 3rd St. Lowell W. Berry, Pres.; W. L. Dixon, Jr., V.P.; Ted Rowbotham, Plant Mgr.; David M. Sansome, Pur. Agt. 30,000 tons. Plant also at Holtville, Calif.

CDGHIJ—Britz Chemical Co.

304 7th Ave. Albert Britz, Pres.; Helen Britz, V.P. & Treas.; Joseph M. Payer, Sec. 6,000 tons.

C—Kaiser Steel Corp.

1924 Broadway. Henry J. Kaiser, Pres.; E. E. Trefethen, Jr., Exec. V.P.; Jack L. Ashby, V.P. & Gen. Mgr.; William P. B. Marks, V.P. & Sec.; Atwood Austin, V.P. & Treas.; C. F. Borden, V.P., Sales; G. B. McMeans, V.P., Operations; Henry J. Kaiser, Jr., V.P.; A. B. Ordway, V.P.; Chad F. Calhoun, V.P.; A. P. Heiner, V.P., Pub. Relations & Traffic; J. R. Walker, Cont.; B. N. Dagan, Works Mgr.; C. R. Lohrey, Asst. Gen. Supt.; G. W. Kelly, Pur. Agt. 25,500 tons ammonium sulphate. 1 mill; Swenson filter; kiln drier; 3 belt conveyors; 3 screw conveyors; bagging machine.

ONTARIO

C—Ontario Fertilizer Works, Inc.

P. O. Box 351; tel: YUKon 6-1189. S. Herzberg, Pres.; S. H. Yahres, Sec.-Treas., Pur. Agt. & Plant Mgr. 10,000 tons. 2 mills, 50 tons daily; drag chains (no belts); horizontal mixers.

PALO ALTO

C—Plantsmiths

P. O. Box 818. E. F. Smith, Owner. 100 tons. (Small package goods only.)

PASADENA

CDG—California Liquid Fertilizer Co.

Box 669; tel: SYcamore 6-3129; Ryan 1-7288. J. J. Crosby, Pres.; J. M. Crosby, V.P.; R. Craig Smith, Sec.-Treas. 1,000,000 gal. liq. fert.

C—Coast Agricultural Fertilizer Co.

2785 E. Foothill Blvd.; tel: SYcamore 3-0374. Helen L. Long, Owner. 550 tons.

PITTSBURG

Shell Chemical Corp.

(Main ofc: New York, N. Y.; Western Div. ofc: San Francisco, Calif.)

POMONA

C—Plant Food Corp.

P. O. Box 419; tel: LYcoming 4-0000. (Main ofc: Los Angeles, Calif.) Keith Annis, Mgr. 5,000 tons.

PORTERVILLE

B—Claude & Letsinger Agricultural Supply.

RICHMOND

BCGI—California Spray-Chemical Corp.
Lucas & Ortho Way; tel; BE 5-1060.
A. W. Mohr, Pres.; E. W. Cannon, H. J. Grady, Leo R. Gardner, P. S. Williams, V.P.; H. C. Judd, Treas.; G. M. Foster, Sec.; Dale Huntsman, Plant Mgr.; L. R. Hudson, Pur. Mgr.; E. W. Cannon, V.P., Mgr. Marketing Dept., Mgr. Pesticide Div.

Stauffer Chemical Co.
(Main ofc: San Francisco, Calif.)
Mfr. Sulphuric Acid & Normal Superphosphate

CGI—United Fertilizer Co.
600 S. 4th St.; tel: LA 5-9210. E. S. Heckathorn, Pres. & Mgr. Pesticide Div.; Ivor R. Burden, V.P.; L. R. Moretti, Sec.-Treas.; E. G. Trimpey, Prod. Mgr.; Peter Chierian, Pur. Agt. 6,000 tons.

RIVERSIDE

CGJ—Riverside Fertilizer Works
P. O. Box 232; tel: 1464. P. E. Waugh, Mgr.; J. J. Zikratz, Asst. Mgr. 6,500 tons. 1 mill.

SACRAMENTO

CGHJ—Crane Fertilizer Co.
Rt. 3, Box 1295; tel: Wabash 5-9201. Lewis D. Crane, Owner. 700 tons.

CJ—Mackenzie Chemical Corp.
P. O. Box 2489; tel: HI 7-6534. Charles Mackenzie, Jr., Pres. & Mgr. Pesticide Div.; Mally C. Mackenzie, Sec.-Treas. 6,000 tons.

CF—John Taylor Fertilizer Co.
P. O. Box 781. H. J. Taylor, Owner. 5,000 tons.

SALINAS

CDEFGHJ—Associated Chemicals
P. O. Box 1330. W. B. Dickens, Sr., Owner, Dir., Pur. Agt.; James A. Bergh, Sales Mgr.; Mrs. W. B. Dickens, Sr., Co-owner; Norman Dickens, Mgr.; Mildred A. Bergh, Sec., Ofc. Mgr.; Edman E. Payne, Plant Mgr.; Joe Miller, Mgr. Trucks Equip. 15,000 tons. 2 mills; 2 baggers; 3 elevators; 400 ft. conveyor belt; 500 ton curing bins.

CFGHJ—J. F. Sloan Co.
P. O. Box 657. J. F. Sloan, Pres.; Mordy S. Rose, V.P.; May J. Sloan, Sec.-Treas.; Edgar C. Mortz, Plant Mgr.; P. A. Babcock, Mgr. Pesticide Div. 1 mill, 1/2 ton batch—40 tons per day; belt conveyor.

CF—E. B. Stone & Son
P. O. Box 57. E. B. Stone, Sr., & Bruce Stone, Ptnrs. 10,000 tons.

CFGHI—The Triangle Co.
320 W. Market St.; P. O. Box 862; tel: 4843. W. E. Simas, Pres.; V. A. Frizzell, V.P. & Gen. Mgr.; E. E. Kaplansky, Treas.; Albert Repos, Plant Mgr.; Robert Wence, Prod. Mgr. 30,000 tons.

SAN BERNARDINO

CHI—Hager Supply Co.
J. W. Hager, Pres.; Margaret Hager, Sec.; Laurence LaFontaine, Supt. 2,000 tons.

SAN FRANCISCO

G—Atlas Fish Fertilizer Co.
#1 Drumm St. Miss Pearl R. Parr, Pres.; Fred D. Parr, V.P.; L. F. Mezzera, Gen. Mgr. Liq. fish-derived fertz. Packaging plants at Oakland and Los Angeles, Calif.; warehouse at Baltimore, Md.

A—Consolidated Chemical Industries, Inc.

111 Sutter St.; tel: Sutter 1-8370. Geo. L. Bond, Pres.; E. S. Rothrock, V.P.; Guy P. Jones, Treas.; J. W. Morton, Sec.; W. G. Bangert, Supt.; Clark Braden, Pur. Agt. 15,000 tons.

CDI—Jessup Milling Co.
458 Jackson St. J. R. Walsh, Pres.

CI—Mountain Copper Co.
230 California St.; tel: Martinez 2057. L. T. Kett, Gen. Mgr.; J. G. Huseby, Asst. Mgr.; S. D. Dodds, Pur. Agt.; C. L. Chapman, Supt. & Mgr. Pesticides Div.; M. M. Stockman, Sales Mgr. 15,000 tons.

CFIJ—Naco Fertilizer Co.
2 Pine St. L. H. Odell, Pres.; H. E. Ferguson, V.P.; A. S. Rupley, Treas.; W. F. Cogswell, Sec. Plants at Los Angeles, Madera & Santa Clara, Calif.

CGH—Shell Chemical Corp.—Western Div. Ofc.
(Main ofc: New York, N. Y.)
100 Bush St. R. C. McCurdy, Pres.; L. V. Steck, V.P., Marketing; G. R. Monkhouse, Western Div. V.P.; A. G. Schei, Treas.; G. E. Brewer, Sec.

AI—Stauffer Chemical Co.
Western ofc: 636 California St. (Zone 8); tel: Sutter 1-5350. Christian de Guigne, Chmn. of Board; Hans Stauffer, Pres.; John Stauffer, V.P., Sec. & Chmn. Exec. Comm., C. de Dampierre, Treas.; Dr. M. L. Spealman, West. Div. Prod. Mgr.; A. C. Mohr, Chief Eng.; E. B. Donaldson, Pur. Agt.; R. A. Lamoree, Western Div. Ag. Chem. Sales Mgr. Plants at Richmond, Calif. (sulphuric acid and normal superphosphate); Vernon, Calif. (sulphuric acid, normal and ammoniated superphosphate); Tacoma, Wash. (normal superphosphate and ammonium phosphate-sulphate).

SAN JOSE

C—Norsco Products, Inc.
P. O. Box 456; tel: Cypress 2-7071. Olaf A. Hansen, Pres. & Plant Mgr.; James T. Howell, V.P. & Pur. Agt.; Hildur M. Hansen, Treas.; Kathleen C. Howell, Sec. 2,500 tons. 1 mill (5 yds.); hammer

mill; shaker screen; bucket conveyor; hopper.

C—Northern California Fertilizer Co.
901 N. 10th St.; tel: Cypress 2-7217. Jesse McG. A. Miller, Pres.; Thos. R. Matsuoka, V.P.; Henry T. Ishigaki, Treas.; Yoneo Bepp, Sec. & Gen. Mgr. 5,000 tons.

CF—Orchard Supply Co.
720 W. San Carlos St.; tel: Cypress 2-6282. W. W. Curtner, Pres.; H. O. Willson, V.P.; K. J. Lewis, Sec.-Treas., Supt., Mgr. Fert. Dept. & Pur. Agt.; James Klemas, Plant Mgr. 1 one-ton MacLellan batch mixer, model 10; 1 30-ft. Union conveyor belt.

SANTA ANNA

Agriform Co., Inc.
Main office. P. O. Box 1707. John C. Anderson, Pres. & Gen. Mgr.; W. C. Rockwell, V.P.; J. N. Galbraith, Sec.; M. E. Koeberle, Treas. Plants at Glendale, Ariz., Holtville & Wasco, Calif.

SANTA CLARA

CDFGH—Cagmar Chemical Co.
Route 1, Box 1688 Lawrence Rd. Jim Coglia, Owner and Plant Mgr. 25,000 gal. liq. fertz. 300 tons dry.

CEFJ—Naco Fertilizer Co.
P. O. Box 149. (Main ofc: San Francisco, Calif.) John McGinley, Mgr.; Karl Market, Plant Mgr. 10,000 tons.

SHAFTER

CEGJ—Beebe Fertilizers, Inc.
P. O. Bin "T"; 402 Central Ave.; tel: 4111. Ed Brown, Fred R. Bryant, Vernon Wilson, Partners. Wilbur Stocker, Plant Mgr. 6,000 tons.

CGJ—Brown & Bryant
P. O. Box Bin "T"; tel: 4111. Ed A. Brown, Fred R. Bryant, Vernon Wilson, Partners. Milton Johnson, Plant Mgr. 15,000 tons. 1 mill; hopper system for batching mixed fert.

STOCKTON

CD—Growers Fertilizer Co.
336 S. Aurora St.; tel: Howard 6-7354. F. J. Jones, Owner; Earl R. Mog, Plant Mgr. 25,000 tons. Complete dry mix plant. Also plant in Lovelock, Nevada.

TERMINAL ISLAND

CI—American Corp.
W. Wade Ambrose, Pres.; Mel Marsh, V.P.; Miss Norma Rogers, Treas.; Dr. H. N. Brocklesby, Sec.; John Patrick, Plant Mgr.; Jaye E. Brower, Gen. Mgr. 10,000 tons.

TERRA BELLA

AFGJ—Diamond Fertilizer Co.
P. O. Box "H". C. S. Garber, Pres.; Luther Greathouse, Plant Mgr. 4,000 tons scheduled, 16,000 tons capacity. 1 custom made mill, 3 tons,

20 tons per run, 50 tons per day. Rail and truck unloading elevator and conveyors—front side and rear side.

TRONA

American Potash and Chemical Corp.
(Main ofc: Los Angeles, Calif.)
736,000 tons muriate of potash.

TUSTIN

CDEFGHJ—Larry Fricker Co.
P. O. Box 451; 135 W. Main St.; tel: Kimberly 2-6359. L. F. Fricker, A. V. Smith, Owner-partners. 8,000 tons. 1 mill for mfg. of mixed goods only; 1 belt conveyor; 1 complete blending mill (mixed fert.).

VERNON

(Main ofc: San Francisco, Calif.)
H. L. Herkelrath, Plant Mgr.; C. A. Lindsay, Prod. Mgr. Sulphuric acid, Normal and Ammoniated Superphosphate.

VISALIA

CDFI—Agro Phosphate Co.
Gordon Greening, Pres.; Standlee Greening, Sec. 20,000 tons.

WASCO

BEGHI—Agriform Co., Inc.
P. O. Box 66. (Main ofc: Santa Ana, Calif.) D. E. Wingate, Supt.; Stanley Phelps, Prod. Mgr. 30,000 tons.

WATSONVILLE

CF—Boyer Fertilizer Service & Mfg.
1st St. & Van Ness Ave.; tel: 4-9351. H. F. Boyer, Owner. 11,000 tons. 1 mill, 2 tons per hr.; belt conveyor & hopper system.

CF—K. W. MacDonald Co.
Kearney & Walker St.; P. O. Box 629; tel: 4-5629. Earle E. Kaplan-sky, Pur. Agt. & Mgr.; George A. Ashford, Plant Mgr.; J. E. Fagundes, Prod. Mgr. 10,000 tons.

WHITTIER

CDI—Leffingwell Chemical Co.
P. O. Box 191, 10523 Santa Gertrudes; tel: Oxford 7-1716. Frances Ann Black, Pres.; V. G. Ryland, V.P. & Treas.; Wm. B. Black, Sec.; J. D. Brannon, Supt.; J. W. Kinsman, Pur. Mgr.; J. R. Allison, Dir. Research. 7,000 tons.

WILLOWS

BEFJ—Glenn Fertilizer Co.
445 N. Tehuma; tel: 621-M. Kent Weaver, Jr., & Darden Taylor, Ptnrs. 5,000 tons.

WILMINGTON

Coast Fisheries—Div. Quaker Oats Co.
J. R. Biven, Pres.; L. B. Irish, V.P., & Sec.-Treas.; C. S. Yeomans, Supt. 3,000 to 5,000 tons, fish meal.

CEF—Kellogg Supply Co.

23924 S. Figueroa St.; tel: Nevada 6-1376. H. Clay Kellogg, Owner; Rowland E. Myers, Sec.; Jake P. McLemore, Ofc. Mgr.; Lewis A. Wilson, Plant Mgr. 60,000 tons. Plant also at Los Angeles, Calif.

WOODLAND

C—Western Farm Chemical Co.
P. O. Box 221; tel: Woodland 2-4182. H. W. Arrowsmith, Pres., Treas. & Pur. Agt.; Dirck Arrowsmith, Sec. & Plant Mgr. 6,000 tons. 1 hammer mill; 1 chain and bar drag conveyor.

YUBA CITY

CFJ—Yuba City Mills
324 A St.; P. O. Box 271. Jerry Harris, Owner. 1,000 tons.

COLORADO

ALAMOSA

C—Valley Fertilizer Co.
P. O. Box 540; tel: 1260-1262. Sidney Anderson, Pres.; Roy D. Gols-ton, V.P. & Pur. Agt.; Dean Mc-Alpin, Sec.; Lewis Johnson, Plant Mgr. 10,000 tons.

COLORADO SPRINGS

CG—Heller Greenhouse Laboratories
218 E. Pikes Peak Ave.; tel: Mel-rose 2-9067. Mrs. Mary K. Heller, Managing Owner. 200,000 gal. liq. fert.; 500 tons paste fert.

DENVER

C—Agricultural Processing Indus-tries, Inc.
3501 East 46 Ave. (Zone 16.). Bed-ford W. Bird, Gen. Mgr. 200 tons.

C—Capitol Fertilizer Co.
Box 6656, Stockyards Sta.; tel: Cherry 4-8491. (Main ofc: National By-Products, Inc., Des Moines, Iowa). L. D. Shedd, Mgr.; Bernard Ulieg, Supt. 10,000 tons. 2 mills, 20 tons per hr.; 2 belt conveyors; 1 car loader.

GRAND JUNCTION

CEGHJ—The C. D. Smith Co.—Agricultural Div.
645 E. 4th Ave.; tel: 3064. B. D. Smith, Pres.; S. T. Smith, V.P.; C. A. Dewey, V.P., Plant Mgr. & Mgr. Pesticides Div.; C. D. Smith, Sec.-Treas.; F. J. Randall, Pur. Agt. 5,000 tons. 1 mill; conveyors & hopper systems completely.

GREELEY

C—Simplot Soilbuilders of Greeley—Div. J. R. Simplot Co.
P. O. Box 520; tel: 2940. (Main ofc: Pocatello, Idaho.) W. R. Burgess, Mgr. 3,000 tons.

MANZANOLA

CJ—Colorado Plant Food Co.
P. O. Box 366 (Rocky Ford); tel: (Manzanola) 2511. R. M. Pitcher, Owner; Erick T. Hildebrandt, Asst. Mgr.; E. D. Murray, Mgr. Pesti-cides Div.; J. E. Caravajal, Plant Mgr. 8,000 tons. 2 mixers, 100 tons daily; conveyors from ammoniat-ing equipment to bulk bins.

MONTE VISTA

C—Maloney Seed Co.
Box 151. A. I. Moloney, Owner; Emmitt A. Moloney, Plant Mgr. 1,100 tons. 1 mill, 10 tons daily; 2 loaders; one long conveyor.

SWINK

Simplot Soilbuilders of Greeley—Div. J. R. Simplot Co.
(Main ofc: Pocatello, Idaho). Larry Schumaker, Resident Mgr.

CONNECTICUT

EAST WINDSOR

C—Apothecaries Hall Co.
(Main ofc: Waterbury, Conn.)
Lloyd C. Schlichting, Mgr. 50,000 tons.

HARTFORD

CJ—Olds and Whipple, Inc.
168 State St. Merle W. Whipple, Pres.; Ernest J. Brewer, V.P.; Frank A. Olds, Treas. & Chmn. of Board; Wm. C. Duffy, Sec.; Wal-lace G. Hastings, Asst. Sec.; F. Herbert Mackay, Asst. Sec.; L. Victor Gue, Factory Supt. 50,000 tons.

MIDDLETOWN

CI—The Rogers & Hubbard Co.
(Main ofc: Portland, Conn.) Horace A. Smith, Supt. 20,000 tons. 3 mills; belt conveyors.

NEW HAVEN

C—The Mamlon Co.
1089 Whalley Ave.; tel: Fulton 7-0529. A. B. Longo, Gen. Mgr.; Mary A. Masino, Sales Mgr. 100 tons.

CJ—New Haven Rendering Co.
(Main ofc: Consolidated Rendering Co., Boston, Mass.) C. O. Duke, Mgr. 10,000 tons. 2 mills; belt con-veyors from mixers to den & from bagger to trucks or cars.

NORTH HAVEN

C—The Woodruff Fertilizer Works, Inc.
Tel: Atwater 8-4572. James R. Rossman, Pres.; Roland A. Payne, Asst. Sec. 7,000 tons.

PORTLAND

CI—The Rogers & Hubbard Co.
Box 233; tel: (Middletown) Dia-mond 6-6641. A. F. Kingsbury, Pres.; B. B. Fall, V.P.; E. S. Davis,

Jr., Treas.; A. F. Kingsbury, Jr., Sec. & Mgr. Pesticide Div. Plant at Middletown, Conn.

STAMFORD

C—The F. A. Bartlett Tree Expert Co.

60 Canal St. O. W. Spicer, Pres.; G. M. Coddington, V.P.; L. Strout, Plant Mgr.

WATERBURY

CJI—Apothecaries Hall Co.

824 Benedict St.; tel: 6-5521. Fred-
eric R. Kellogg, Pres.; Edw. R.
Jones, V.P. & Treas.; Levi Wilcox,
Sec.; Wm. H. Stahl, Asst. Sec.;
Everett D. Marvin, Jr. Mgr. Pesti-
cide Div. Plant at East Windsor,
Conn.

CDFHI—Oscar F. Warner Landscape
Forester

Oscar F. Warner, Owner. 200 tons.

DELAWARE

GEORGETOWN

CD—Melson Fertilizer Co., Inc.

Pierre Hoge, Chmn. of Board;
Harvey Melson, Pres. & Gen. Mgr.;
J. F. Bratton, Treas.; Margaret
Collins, Sec.

LAUREL

CDFGH—Valliant Fertilizer Co.

Elbert N. Carvel, Pres.; Edwin S.
Valliant, Jr., V.P. & Treas.; J.
Carlton Hearn, Sec.; Ernest Dick-
erson, Supt. 25,000 tons. 2 bagging
mills; 1 mixing mill, Atlanta Utili-
ty 1½ ton batch; 2 bagging mills, 1
Sackett and 1 Stedman, with max-
imum bagging capacity of 100 tons
per hr. Portable belt conveyors in
mixing operation to channel fert.
to proper bins. 6 of these, made to
specifications by local operation.

MILFORD

CFGH—Milford Fertilizer Co.

Edwin S. Valliant, Jr., Pres. &
Pur. Agt.; Elbert N. Carvel, V.P.;
Robert A. Fischer, Sec.-Treas. &
Prod. Mgr.; Louis Carpenter, Plant
Mgr. 10,000 tons.

SEAFORD

CDFGH—Huston Culver Fertilizers,
Inc.

Box 89. D. D. Culver, Pres.; Geo.
H. Culver, V.P.; Houston Wilson,
Sec.; Albert Culver, Supt.; Geo. H.
Culver, Prod. Mgr. 10,000 tons. 2
mills; 1 belt conveyors.

CF—A. S. Wooley Co., Inc.

S. Pine St.; tel: 7061. Thomas Scott
Purse, Pres. & Prod. Mgr.; Mary J.
Eddy, V.P.; Jean L. Purse, Sec.-
Treas.; Leonard H. Barkley, Plant
Mgr. 6,000 tons. 1 mill; belt con-
veyors & hoppers.

SELBYVILLE

Smith-Rowland Co.—Div. Smith-

Douglass Co., Inc.

(Main ofc: Norfolk, Va.)

SMYRNA

CFGHJ—Warner W. Price Co., Inc.

P. O. Box 591. Warner W. Price,
Jr., Pres. & Pur. Agt.; Mildred H.
Price, V.P.; Harry J. Lower, V.P.
& Treas.; James R. Ford, Sec. &
Mgr. Pesticide Div.; Courtland
Gaulke, Plant Mgr. 15,000 tons. 3
mills; hopper system; 6 belt con-
veyors.

WILMINGTON

CG—Eastern States Farmers' Ex-
change, Inc.

Marine Terminal; Tel: 4-3161.
(Main ofc: West Springfield,
Mass.) D. O. Conrad, Plant Mgr.;
J. R. Myers (York, Pa.), Prod.
Mgr. 18,000 tons. 1 mixing unit;
2 shipping units; hopper system;
granulation unit.

DISTRICT OF COLUMBIA

WASHINGTON

CF—F. W. Bolgiano & Co.

411 New York Ave., N. E.; tel:
Lincoln 7-4800. Mrs. Nellie D. Bol-
giano, Pres.; Gordon R. Smith,
V.P.; Raymond B. Ward, Treas.; C.
Blakely Arthur, Sec.; W. H. Cock-
erell, Plant Mgr.; C. B. Arthur,
Prod. Mgr. 8,000 tons. 2 mills, 1
ton; Fraquahr portable, Stedman
stationary & shuttle conveyors.

FLORIDA

BARTOW

B—Armour Fertilizer Works

(Main ofc: Atlanta, Ga.) E. C. John-
son, Supt. Triple superphosphate
plant. 150,000 tons.

C—Ideal Fertilizer Co.

Reginald Garrett, Mgr.

Davison Chemical Co.—Div. W. R.
Grace & Co.

(Main ofc: Baltimore, Md.) tel: 2-
1211. C. C. Dorsey, Pur. Agt.; A. T.
Cole, Mgr. Phos. Div. (Mfg. triple
superphosphate and mining phos-
phate rock).

International Minerals & Chemical
Corp.

P. O. Box 867. (Main ofc: Chicago,
Ill.) Rock Phosphate mines. F. B.
Bowen, Plant Mgr. (Mines); E. T.
Casler, Asst. Mgr. (Mines); S. T.
Keel, Sales Mgr. rock phosphates;
H. C. Cooper, Pur. Agt.

Swift & Co.

Phosphate Mine. R.F.D. 1, Box 200.
(Main ofc: Chicago, Ill.) H. P.
Gould, Mgr.

BELLE GLADE

CIJ—Hector Supply Co.

(Main ofc: Miami, Fla.) M. M.
Sabiston, Supt. 3,000 tons. 1 mill;

belt conveyors.

CEFI—Wedgworth's, Inc.

Box 206; tel: 2076. Ruth S. Tim-
mons, Pres.; N. T. Taylor, Gen.
Mgr. 6,000 tons. 1 Atlanta Utility
mill, ½ ton batch; unloading hop-
per; Link-Belt elevator and drag
conveyor chain for bulk materials
handling from cars to bins; 1
Hough Payloader.

CLEARWATER

CJ—Pinellas Growers Assn. Fertiliz-
er Works

P. O. Box 682; tel: 3-2246. Stephen
Chase, Pres.; A. V. Saurman, Sec.-
Treas. 10,000 tons. 1 mill, 10-15
tons per hr.; 2 portable bag con-
veyors.

COTTONDALE

A—Cartledge Fertilizer Co.—Div.
Wilson & Toomer Fertilizer
Co.

(Main ofc: Jacksonville, Fla.) Ray-
mond Cartledge, Mgr. 50,000 tons.

DADE CITY

C—Pasco Packing Co.—Fertilizer
Div.

J. T. Lykes, Pres.; L. C. Edwards,
Jr., H. S. Massey, V.P.; L. M.
Hawes, Sec.-Treas.; H. H. Boltin,
Prod. Mgr.; H. C. Wheelchel, Plant
Mgr.; A. L. Spencer, Pur. Agt.

DUNEDIN

CDI—L. B. Skinner Co., Inc.

P. O. Box 126. M. E. Skinner,
Pres.; F. L. Skinner, Sec.-Treas.;
Wallis L. Skinner, Plant Mgr., Pur.
Agt. & Mgr. Pesticide Div.

DUNNELLON

Seaboard Phosphate Co.

R. R. Knight, Pres.; W. L. Smith,
Plant Mgr. Soft phosphate with
colloidal clay. 20,000 tons.

Soil Builders, Inc.

F. O. Hanks, Pres.; C. D. Bevis,
V.P.; E. B. Larson, Sec.-Treas.; A.
S. Head, Plant Mgr. Soft phos-
phate with colloidal clay. 20,000
tons.

Superior Phosphate Co.

J. H. Roof, Sr., Pres.; R. D. Roof,
V.P.; B. E. Roof, Treas.-Sec. Phos-
phatic clay. 20,000 tons.

EAST TAMPA

Tennessee Corp.

(Main ofc: New York, N. Y.)

FT. LAUDERDALE

CD—Everglades Fertilizer Co.

Jno. B. Dye, Pres.; J. A. Speights,
V.P.; John B. Dye, Jr., Treas. &
Pur. Agt.; Alf M. Dye, Sec. &
Plant Mgr.; W. J. Maxwell, Prod.
Mgr. 21,000 tons. 1 mill, 30,000
tons; belt conveyors.

FT. PIERCE

C—The Growers Fertilizer Co.

P. O. Box 246; tel: 87. J. E. Nobles, Jr., Pres.; E. M. Nobles, V.P.; W. Bush, Sec.-Treas.; U. A. Pyles, Plant Mgr. 30,000 tons. 1 Atlanta Utility mill; belt conveyors for loading bagged fert. on trucks (Rapistan conveyors).

CI—Naco-Thurston Fertilizer Co.—
Div. W. R. Grace & Co.

P. O. Drawer 150; tel: 1300. (Main ofc: Joplin, Mo.) W. C. Smith, Mgr.; Jesse Baggett, Supt. 50,000 tons.

FROSTPROOF

C—Maxcy Fertilizers, Dept. Clinton Foods, Inc.

P. O. Box 158. L. Maxcy, V.P. & Gen. Mgr.; L. A. Huemmler, Sec.-Treas.; E. R. Johnston, Plant Mgr. & Pur. Agt.; N. H. Houston, Prod. Mgr. 10,000 tons.

GOULDS

CE—Southern Florida Fertilizer Co.
Winford W. Brown, Pres. & Prod. Mgr.; J. S. Eaton, V.P.; R. O. Brown, Plant Mgr. 25,000 tons.

HAINES CITY

C—Gentile Bros. Co.

Lawrence Gentile, Sr., Pres.; Victor Gentile, V.P.; Leonard Gentile, Sr., Sec.-Treas. 10,000 tons.

CDF—Haines City Fertilizer Works

P. O. Box 337. Dr. A. F. Camp, Pres.; R. V. Phillips, Gen Mgr.; A. C. Mathias, Prod. Mgr. & Pur. Agt.; C. A. Adams, Sec.-Treas. 10,000 tons. 1 mill, 1 ton; complete bulk handling system from mixer to groves.

C—Polk County Fertilizer Co.

Dixie Hwy.; tel: 4201; 6-1891. Partnership; L. B. Angel, Jon. L. Olson, and their children; V. J. Dillstone, Plant Mgr.; R. J. Lyle, Prod. Mgr.; L. B. Angel, Pur. Agt. 29,000 tons. 2 mixing units, 35,000 tons.

HAVANA

CE—The Planters Exchange, Inc.

P. O. Box 858; tel: 2 & 19. W. P. Woodbery, Pres.; B. L. Gregory, V.P.; W. L. Williams, Sec.-Treas.; C. W. May, Supt.; W. L. Williams, Prod. Mgr. 15,000 tons.

HIGH SPRINGS

Loncala Phosphate Co.

Tel: 110. Sam Kelly, Pres.; Charles Savage, V.P.; Betty C. Means, Sec.-Treas.; Barney Floyd, Supt.; Davis H. Parker, Plant Mgr. Coloidal phosphate producers. 15,000 tons.

HOMESTEAD

CFJ—Florida East Coast Fertilizer Co.

P. O. Box 455; 452 S. Flagler St.; tel: 16 & 17. G. Walter Moody, Pres.; A. D. Fogle, Sec.-Treas.; Henry R. Pridgen, Mgr.; John M. Frederick, Plant Mgr.; Howard C. Bardsley, Mgr. Pesticide Div. 10,000 tons. 1 Davidson-Kennedy

mill, 30 tons per hr.; Davidson-Kennedy weigh-batch system; belt conveyors of own design; Inglett & Corley sacking system.

JACKSONVILLE

A—Armour Fertilizer Works

Talleyrand Ave.; P. O. Box 599. (Main ofc: Atlanta, Ga.) B. W. Alphin, Div. Mgr.

C—International Minerals & Chemical Corp.

(Main ofc: Chicago, Ill.) K. B. Kellam, Supt.

CGI—Naco-Thurston Fertilizer Co.—
Div. W. R. Grace & Co.

P. O. Box 1114; tel: 3-8601. (Main ofc: Joplin, Mo.) W. C. Smith (Ft. Pierce, Fla.), Mgr.; W. E. Abbott, Supt. 50,000 tons.

C—Trueman Fertilizer Co.

1015 Lynch Bldg.; P. O. Box 1175. Ray B. Trueman, Pres.; J. J. McGrath, V.P.; Hoyt Bragdon, V.P. & Treas.; Henry J. Cocks, Sec.; W. R. Royster, Plant Mgr.; R. B. Trueman, Prod. Mgr. 50,000 tons. 2 mills; hopper system.

C—Virginia-Carolina Chemical Corp.
Tel: 3-0717. (Main ofc: Richmond, Va.)

A—Wilson & Toomer Fertilizer Co.

P. O. Box 4459. Wallace B. Hicks, Pres.; Frank Taylor, Jr., B. D. Barber, M. C. VanHorn, V.P.; George D. Hore, Sec.; W. C. Munde, Treas.; E. E. Hore, Asst. Sec.-Treas.; W. A. Stone, Plant Mgr.; Fred D. Coffee, V.P. & Prod. Mgr. 125,000 tons. Plants also at: Cottondale, St. Petersburg & Tampa, Fla.

LAKE ALFRED

CJ—Growers Fertilizer Cooperative

Tel: (Winter Haven) 3698. B. T. Reynolds, Pres. & Treas.; N. A. Street, V.P.; Paul N. Simmons, Mgr. 25,000 tons. 1 mill, 40 tons per hr.; complete mechanization.

LAKELAND

C—Florida Favorite Fertilizer, Inc.

Tel: Mutual 2-1291. W. H. Stuart, Pres.; J. K. Stuart, V.P.; M. A. Cook, Sec.-Treas.; E. F. Murray, Mgr.; J. E. Palmer, Plant Mgr. 45,000 tons. 2 mills, 1 & 1½ tons; 2 cluster hoppers; 9 x 6 bin; stationary conveyor; movable conveyor.

LAKE WALES

C—Ridge Fertilizer Co.

P. O. Box 486. M. C. Dopler, Pres.; King Spott, V.P.; P. J. Gum, Sec.-Treas. & Mgr.; H. B. Hinton, Supt. 20,000 tons.

LEESBURG

CFG—Foremost Fertilizer Co.

P. O. Box 358; tel: 666, 667. Byron E. Herlong, Pres.; R. Parks Williams, V.P.; Walter Manly, Sec.-Treas.; N. A. Lockett, Gen. Mgr.;

W. J. Belding, Plant Mgr. 1 mill, 30,000 tons; conveyor belts for unloading materials from car to bin also from hoppers to mixer; hopper system—4 hoppers with 14 compartments.

M—16 Products, Inc.

Box 450. I. A. Mayo, Pres.; Ralph E. Roper, V.P.; G. L. McComb, Sec.-Treas. & Gen. Mgr.

MIAMI

CEIJ—Hector Supply Co.

P. O. Box 1311. Louis J. Hector, Pres.; C. E. Reger, V.P., Prod. Mgr. & Pur. Agt.; R. C. Hector, V.P. & Sec.-Treas.; W. D. DeHass, Plant Mgr. 30,000 tons. 1 mill; 2 unloading conveyors, 1 loading belt conveyor, 2 shuttle belt basing conveyors. Plant also at Belle Glade, Fla.

BGJ—"10-E.M." Plant Food

3255 W. Flagler St.; P. O. Box 366, R Sta.; tel: HI 0593. Zana Deatrick, Owner.

MOUNT DORA

CFI—Citrus Culture Corp.

P. O. Box 699. J. E. Fortner, Pres. & Gen. Mgr.; Geo. J. White, Sec.-Treas.; J. A. Sligh, Plant Mgr. 30,000 tons.

MULBERRY

C—International Minerals & Chemical Corp.

(Main ofc: Chicago, Ill.) E. Meade Wilson, Area Mgr.; J. K. O'Cain Supt.

A—F. S. Royster Guano Co.

(Main ofc: Norfolk, Va.) L. D. Yates, Mgr.; B. O. Couvillon, Supt. Triple superphosphate. 75,000 tons.

NICHOLS

A—Virginia-Carolina Chemical Corp.

Tel: (Mulberry) 2301. (Main ofc: Richmond, Va.) Factory, concentrated superphosphate plant, phosphate rock mines & chemical.

OAKLAND

CFJ—South Lake Fertilizer Works

Tel: (Winter Garden) 91. Mrs. J. D. Hennes, Pres.; Dan L. McKinnon, V.P.; H. C. Tilden, Treas.-Sec.; George Beck, Plant Mgr.; W. S. Arrington, Prod. Mgr. & Mgr. Pesticide Div. 10,000 tons. 1 mill, 10 tons per hr.

OCALA

CFGJ—Marico, Inc.

P. O. Box 494; tel: Marion 2-4143. Alex Collins, Pres.; O. C. Branch, Sr., V.P. & Pur. Agt.; L. F. Branan, Sec.-Treas.; O. C. Branch, Jr., Plant & Prod. Mgr., Mgr. Pesticide Div. 15,000 tons.

ORLANDO

CD—Fosgate Growers Cooperative

Box 7127, College Park Sta. Chester C. Fosgate, Pres.; Claude C.

Merishon, Gen. Mgr.; W. R. Hancock, Asst. Gen. Mgr.; V. C. Drake, Supt.; Abe Meer, Mgr. Fert. & Pesticide Depts., Pur. Agt. 20,000 tons. 1 mill; car loaders, Payloaders; hopper system; belt loading equipment; bulk loading.

C—Howard Fertilizer Co.
J. Howard & R. M. Howard, Ptnrs.; W. A. Bishop, Plant Mgr. 20,000 tons.

Howard Phosphate Co.
S. W. & M. C. Howard, Ptnrs.; W. E. Marlow, Plant Mgr. 10,000 tons. Colloidal phosphate mining.

C—Dr. P. Phillips Fertilizer, Inc.
60 W. Robinson Ave.; P. O. Box 3758. Howard Phillips, Pres.; Della Phillips, V.P.; Cawood Whitley, Treas.; R. D. Robinson, Sec.; N. E. Maring, Plant Mgr.; K. O. Winjum, Pur. Agt. 3,000 tons. 1 mill, 1-ton mixing plant. 6 unit hopper; 50-ft. bulk conveyor; Payloader; sewing machine; bag conveyor.

CFIJ—Walker Fertilizer Co.
R.F.D. #2, Box 33-A. E. B. Hunt, Pres.; C. W. Walker V.P.; R. L. Staples (Mrs. Herbert H. Staples), Sec.-Treas.; C. D. Walker, Chmn. of Board; R. T. Williamson, Plant Mgr.; Geo. Schiemer, Pur. Agt.; J. W. Patrick, Mgr. Pesticide Div. 50,000 tons.

OVIEDO

C—Wheeler Fertilizer Co.
Box 236; tel: 2511. B. F. Wheeler, Jr., Pres.; Geo. L. Wheeler, V.P.; J. W. Evans, Sec.-Treas.; A. A. Myers, Mgr.; W. H. Cox, Prod. Mgr. 30,000 tons.

PAHOKEE

CIJ—Glades Chemical Co.
P. O. Box 817. (Formerly Stuckey Fert. Works.) Wm. S. Plumer, Pres. & Gen. Mgr.; Howard C. Fisher, V.P.; Howard K. Morgan, Sec.-Treas.; T. E. Pennington, Plant Supt. 10,000 tons. 1 mill, 1-ton; Davidson-Kennedy 9-5 ton hopper system; Davidson-Kennedy 6-500 lb. midget hopper system.

PALMETTO

CJ—Producers Supply, Inc.
P. O. Box 185. J. E. B. Asbell, Pres.; Mrs. J. E. B. Asbell, Sec.; Earl R. Frierson, V.P. & Treas.; Clavton E. Peterson, Plant Supt. 12,000 tons.

PENSACOLA

A—The American Agricultural Chemical Co.
Box 1671. (Main ofc: New York, N. Y.) T. T. Gully, Mgr.; O. F. Cordon, Supt.

C—International Minerals & Chemical Corp.
(Main ofc: Chicago, Ill.) R. D. Dark, Supt.

C—Merchants Fertilizer & Phosphate Co of Pensacola, Inc.
M. J. Clement, Pres. & Gen. Mgr.; M. J. Clement, III, V.P.; M. C. Brown, Sec. 25,000 tons.

C—The Southern Cotton Oil Co.
P. O. Box 1827; tel: 3-2114. (Main ofc: New Orleans, La.) J. T. Murphy, Mgr.

PIERCE

A—The American Agricultural Chemical Co.
(Main ofc: New York, N. Y.) Mines, Sales Ofc. & Fert. Works. W. A. Lyerly, Jr., Mgr., Pierce Fert. Works; J. S. Gruel, Supt. Phos. Rock Mines.

Pierce Phosphorus
Phosphorus Plant only. F. E. Maurer, Supt.

PLANT CITY

Coronet Phosphate Co.—Div. Smith Douglass Co., Inc.
(Main ofc: Norfolk, Va.) Phosphate rock mining operation.

C—Alvin H. Hinson
Tel: 240. A. H. Hinson, Owner. 5-000 tons. ½-ton mixing unit.

C—Shore Fertilizer Co.
Box 469; tel: 425. S. D. Shore, Mgr. 10,000 tons.

PLYMOUTH

CFIJ—Plymouth Citrus Growers Assn.
E. W. Fly, Pres.; A. C. Johnson, V.P.; R. T. Carleton, Sec.; Dean Thomas, Plant Mgr.; Geo. Fernandez, Pur. Mgr.; E. L. Matthews, Prod. Mgr.; Dr. Ralph L. Miller, Mgr. Pesticide Div. 20,000 tons. 1 mill; belt conveyor for making base; belt conveyor for bulk loading.

ST. PETERSBURG

CEI—Chatelier's Laboratories
4938 16th St., N. Dr. Paul Chatelier, Owner; Mary K. Chatelier, Sec.-Treas.

C—Chatelier Plant Food
5763 63rd St., N.; P. O. Box 119, Sta. A; tel: 42-6131, 41-1555. C. R. Vose (c/o Key Nursery, P. O. Box 44, Osprey, Fla.), Owner; Dr. Paul A. Chatelier, Plant Mgr. 1,100 tons soluble plant food (dry form). 2 mills; 1 ton 100-mesh & 16 tons 30-mesh daily.

C—Wilson & Toomer Fertilizer Co.
(Main ofc: Jacksonville, Fla.) 30-000 tons.

SANFORD

C—Chase & Co.
P. O. Box 291. Randall Chase, Pres.; S. O. Chase, Jr., V.P.; R. A. Smith, Treas.; T. W. Jones, Sec.; Eric Nordgren, Plant Mgr. 20,000 tons.

SEBRING

CFH—Highlands Fertilizer Co.
W. W. Harshman, Pres.; F. M. Schumacher, Sec.-Treas.; R. S. Hartless, Plant Supt. 10,000 tons.

TAMPA

CJ—The Gulf Fertilizer Co.
P. O. Box 2721; tel: 4-2146. L. P. Woods, Chmn. of Board; F. J. Woods, Pres. & Treas.; Mrs. L. R. Woods, V.P.; W. H. Anderson, Sec.; R. G. Alford, Plant Mgr.; W. H. Bush, Pur. Agt.; R. R. Reed, Mgr. Pesticide Div. 60,000 tons. 3 mills: 1½, 1½ & 1 ton; 1 hopper system including 4 belt conveyors.

CD—Lyons Fertilizer Co.
W. L. Waring, Jr., Pres.; R. G. Nelson, V.P.; W. F. McLane, Treas.; J. C. Wolfe, Sec. & Gen. Mgr.; T. E. Bourland, Jr., Supt. 50,000 tons.

CJ—Peninsular Fertilizer Works—Div. Wilson & Toomer Fertilizer Co.
(Main ofc: Jacksonville, Fla.) P. O. Box 11308, Produce Sta. G. H. Lucas, Gen. Mgr.; E. V. Gunn, Supt. 65,000 tons.

CI—Superior Fertilizer & Chemical Co.
P. O. Box 1021; tel: 4-4131. Tom B. Swann, Pres.; G. D. Sloan, Treas. & Gen. Mgr.; A. D. Rothwell, Sec.; G. F. Marrs, Plant Mgr. 30,000 tons.

U. S. Phosphoric Products—Div. Tennessee Corp.
P. O. Box 3269. (Main ofc: New York, N. Y.) L. C. Oakley, Jr., Mgr.; J. K. Sparkman, Sales Mgr. 500,000 tons triple superphosphate, 150,000 tons superphosphate.

CD—West Coast Fertilizer Co.
P. O. Box 1094. C. F. Daly, Pres.; O. H. Maxwell & G. F. Reeves, V.P.; E. A. Fripp, Sec.-Treas.; H. F. Sweet, Plant Mgr. 40,000 tons. 2 mills, 1½ tons each; belt conveyors.

WAVERLY

CFJ—Waverly Fertilizer Works
W. C. Pedersen, Pres.; A. E. Walker, V.P.; Morton Howell, Mgr. Pesticide Div. 12,000 tons.

WINTER GARDEN

C—Diamond R. Fertilizer Co.
Box 132; tel: 522, 580. L. F. Roper, Pres.; B. E. Roper, V.P.; W. F. Roper, Sec.-Treas.; Geo. M. Barley, Gen. Mgr.; J. S. Watson, Plant Mgr. 18,000 tons. 1 mill; bulk loading conveyor.

WINTER HAVEN

C—Swift & Co.—Plant Food Div.
Box 1272. (Main ofc: Chicago, Ill.) J. W. Whitaker, Mgr.

GEORGIA

ADEL

CE—The Cotton Producers' Assn.
(Main ofc: Atlanta, Ga.) Siding on
G. & F. R. R. 10,000 tons.

ALBANY

CF—Albany Warehouse Co.

Box 163. J. P. Champion, Pres. &
Pur. Agent.; R. E. Champion, V.P.
& Treas.; J. P. Champion, Jr., V.P.,
Pur. Agt. & Gen. Mgr. 20,000 tons.

A—Armour Fertilizer Works

(Main ofc: Atlanta, Ga.) W. A.
Higginbotham, Jr., Div. Mgr.

B—Swift & Co.—Plant Food Div.

P. O. Box 371. (Main ofc: Chicago,
Ill.) J. E. Elder, Mgr.

C—Virginia-Carolina Chemical Corp.

Tel: Hemlock 2-2396; Factory tel:
Hemlock 2-6561. (Main ofc: Rich-
mond, Va.)

AMERICUS

CDF—Americus Oil Co.

Box 376; tel: 2731-32. H. E. Mc-
Math, Pres. & Pur. Agt.; Riley
McMath, V.P.; Howard Bankston,
Sec.-Treas. 10,000 tons.

**B—International Minerals &
Chemical Corp.**

(Main ofc: Chicago, Ill.) F. L. But-
ler, Supt.

ARLINGTON

CF—Arlington Manufacturing Co.

Box 158; tel: 102. C. M. Cowart,
Pres. & Owner; James W. Tindol,
Plant Mgr. 1,000 tons.

**CD—Arlington Peanut & Fertilizer
Co.**

G.-C. Davis, Mgr. 1,000 tons.

ATHENS

A—Empire State Chemical Co.

Tel: 1080. M. S. Hodgson, Pres. &
Pur. Agt.; E. R. Hodgson, G. L.
Daniel, V.P.; Harry Hodgson, Sec.-
Treas.; Chas. P. Belding, V.P.,
Supt. & Plant Mgr. 50,000 tons. 4
sacking mills; hopper system; belt
conveyors; automatic bagging
scales; Payloaders.

**C—Hulme Fertilizer & Warehouse
Co.**

G. H. Hulme, Pres. & Mgr.; W. L.
Malcom, Plant Supt. 3,000 tons.

CF—Rowe Warehouse & Fertilizer

P. O. Box 1107; tel: 218. Partner-
ship: Malcolm A. Rowe (Pur. Agt.),
Mrs. Maude P. Rowe & Mrs. Mary
Rowe Birchmore. H. Grady Parr,
Plant Mgr. 20,000 tons. 2 mills, 30
tons per hr. each; Payloaders; belt
conveyors. (Plant leased to Cotton
Producers' Assn., Atlanta, Ga., for
1954.)

ATLANTA

**BF—A. D. Adair and McCarty Bros.,
Inc.**

104 Poplar St. A. D. Adair, Sr.,

Pres.; A. D. Adair, Jr., V.P.; D. V.
Bird, Supt. 20,000 tons. Plants also
at Chattanooga and Gray Station,
Tenn.

A—Armour Fertilizer Works

P. O. Box 1685. General Offices: J.
E. Sanford, Pres.; W. E. Shelburne
& C. F. Hagedorn, V.P.; H. C.
Moore, V.P. & Dir. of Purchases;
I. J. Field, Sec.; V. H. Hair, Treas.
Plants located at Searsport, Me.;
Carteret, N. J.; Curtis Bay, Md.;
Norfolk, Va.; Navassa & Greens-
boro, N. C.; Columbia, S. C.; Au-
gusta, Columbus, Atlanta, Albany,
Ga.; Bartow, Jacksonville, Fla.;
Montgomery, Birmingham, Ala.;
No. Kansas City, Mo.; Shrewsbury,
La.; Waterloo, Iowa; Houston &
Dallas, Texas; Memphis & Nash-
ville, Tenn.; Jeffersonville, Ind.;
Cincinnati & Sandusky, Ohio;
East St. Louis & Chicago Heights,
Ill.; Winona, Minn.; Matanzas,
Cuba; San Juan, Puerto Rico.

C—Atlanta Chemical Co.

W. B. Burns, Pres.; Mrs. T. G.
Chastain, V.P.; W. B. Burns,
Treas.; D. J. Ray, Sec.; P. H. Ginn,
Plant Mgr. 20,000 tons.

BI—The Cotton Producers Assn.

P. O. Box 2210. Main ofc. S. S.
Johnson (Rome, Ga.), Pres.; War-
ren P. Sewell, V.P.; C. B. Funder-
burk, Treas.; D. W. Brooks, Sec. &
Gen. Mgr.; J. E. Nunnally, Dir.
Fertilizer Service. Plants at Adel,
Carrollton, Cordele, Savannah and
Sylvester, Ga. 81,000 tons.

C—F. S. Royster Guano Co.

(Main ofc: Norfolk, Va.) Jno. P.
Porter, Sales Mgr.; J. E. Moss,
Supt. 15,000 tons.

**B—Southern Fertilizer & Chemical
Co.**

P. O. Box 673. (Main ofc: Savan-
nah, Ga.) V. Purvis, Plant Mgr.
40-50,000 tons.

B—Swift & Co.—Plant Food Div.

33 Hunter St., S. W. (Main ofc:
Chicago, Ill.) A. L. Wiley, Mgr.

C—Virginia-Carolina Chemical Corp.

Tel: Walnut 1016; Factory tel:
Dearborn 1447; (Main ofc: Rich-
mond, Va.) Joe Shepard, Div. Mgr.

AUGUSTA

C—Armour Fertilizer Works

(Main ofc: Atlanta, Ga.) W. G.
Neuhaus, Div. Mgr.

CJ—Augusta Fertilizer Co.

P. O. Box 760; tel: 2-6042. W. W.
Doughty, Pres.; C. A. DeBeaugrine,
V.P. & Treas.; M. M. Smith, Sec.;
C. A. Eckhoff, Plant Mgr. 10,000
tons. 1 mill, 30 tons per hr.

B—Etheredge Guano Co., Inc.

753 Reynolds St.; tel: 2-6288. J.
Lee Etheredge, Sr., Pres.; J. Lee
Etheredge, Jr., V.P.; P. L. Ether-
edge, Sec.-Treas. & Pur. Agt.; H.
P. Osborne, Supt.; G. M. Mason,
Plant Mgr. 18,000 tons. 3 mills, 5-

600 tons daily (1 basing, 2 bag-
ging); hopper system consisting of
8 Inglett & Corley bins.

**B—International Minerals & Chemi-
cal Corp.**

(Main ofc: Chicago, Ill.) C. H.
Flint, Supt.

A—Virginia-Carolina Chemical Corp.

Tel: 2-5928. (Main ofc: Richmond,
Va.)

BARTOW

CE—Bryant's Inc.

Tel: 58. Fred C. Evans, Pres., Pur.
Agt. & Prod. Mgr.; J. B. Green-
way, Plant Mgr. 2,500 tons.

BLACKSHEAR

CDF—The Blackshear Mfg. Co.

L. J. Allen, Pres.; J. H. Donaldson,
& R. D. Thomas, V.P.; Warren
Lott, Sec.-Treas.; Geo. D. Brantley,
Asst. Sec.-Treas.; M. E. Dowling,
Plant Mgr. 25,000 tons. 2 mills; belt
conveyors; hopper systems.

BUTLER

CDF—Cochran Warehouse Co.

Robert Cochran, Mgr. 3,000 tons.

CAIRO

CJ—Graco Fertilizer Co.

C. T. Helm, Pres.; H. T. Leggett,
V.P.; R. E. Johnson, Sec.-Treas. &
Mgr. 5,000 tons.

CAMILLA

CF—Camilla Cotton Oil Co.

George M. Perry, Pres.; W. Delma
Givens, Plant Mgr. 6,000 tons.

CF—The W. F. Cullens Fertilizer Co.

Drawer 192; tel: 4221 & 2914. W. F.
Cullens, Owner; P. C. Cullens,
Gen. Mgr.; W. T. Hurst, Supt. 5-
000 tons. 1 mixing unit, 30 tons per
hr.; belt conveyors; hoppers.

CARROLLTON

BE—The Cotton Producers Assn.

Siding on C. of Ga. Ry. (Main
ofc: Atlanta, Ga.) 20,000 tons.

CARTERSVILLE

C—The Southern Cotton Oil Co.

P. O. Box 910. (Main ofc: New Or-
leans, La.) Sam McGowan, Mgr.

CEDARTOWN

C—Tennessee Corp.

(Main ofc: New York, N. Y.)

COLQUITT

C—Farmers Fertilizer & Milling Co.

Fourth St. T. W. Rentz, V.P.; Mrs.
Hazel Rawls, Sec.-Treas.; W. B.
Rentz, Plant Mgr.; W. H. Rawls,
Pur. Agt. 10,000 tons. 1 mill; belt
conveyor.

COLUMBUS

A—Armour Fertilizer Works

(Main ofc: Atlanta, Ga.) F. B.
Mainor, Div. Mgr.

C—W. C. Bradley Co.

Front Ave.; P. O. Box 140. D. A. Turner, Chmn.; Wm. B. Turner, Pres.; L. P. Corn, 1st V.P.; M. J. Stalling, V.P.; J. R. Thomas, Jr., Plant Mgr.; P. H. Burrus, Sec.-Treas. & Pur. Agt. 10,000 tons.

C—The Southern Cotton Oil Co.
P. O. Box 183. (Main ofc: New Orleans, La.) W. S. Boyd, Mgr.

COMER

C—Whitehead & Gholston
Tel: 8302. H. J. Whitehead, Active Ptnr.; S. F. David, Plant Mgr. 4,000 tons.

COMMERCE

C—Commerce Fertilizer Co.
P. O. Box 141; tel: 3-7272; plant tel: 3-4311. J. M. Shepherd, Pres.; V. L. Davis, V.P.; Mrs. T. A. Minish, Sec.-Treas.; W. B. Wilson, Plant Mgr.; J. B. Williams, V.P. & Gen. Mgr. 3,000-4,000 tons.

CONCORD

CFJ—R. F. Strickland Co.
Tel: Gypsy 5-2361. R. H. Strickland, Sr., Pres. & Pur. Agt.; G. M. Strickland, Sr., V.P.; R. H. Strickland, Jr., Sec.-Treas.; Geo. M. Strickland, Jr., Plant Mgr. 7,500 tons. 1 mixer.

CORDELE

BE—The Cotton Producers' Assn.
Siding on ACL RR & GS&F RR. (Main ofc: Atlanta, Ga.) 25,000 tons.

C—The Southern Cotton Oil Co.
P. O. Box 416; tel: 1078. (Main ofc: New Orleans, La.) E. O. Leddon, Mgr.

COVINGTON

CFJ—Fowler Fertilizer Co.
R. R. Fowler, 10,000 tons. 1 mill, 1/2 ton.

CUTHBERT

C—Cuthbert Gin Co.
P. O. Box 272; tel: 146. F. M. Reid, Pres.; W. W. Broach, V.P. & Gen. Mgr.; Sara Pearce, Sec.-Treas.; E. B. Cox, Plant Mgr. 5,000 tons.

DALTON

CDF—Looper & Swann
401 McCamy St.; tel: 302. H. J. Longley, Plant Mgr.; Paul Swann, Prod. Mgr.; J. W. Looper, Pur. Agt. 3,000 tons.

DAWSON

Dawson Compress & Storage Co.
Tel: 44. T. B. Raines, Pres.; Ernest Baldwin, Sec.-Treas. & Gen. Mgr.; Frank Orr, Plant Mgr. 5,000 tons.

CFI—Dawson Cotton Oil Co.
E. Stevens, Chmn. of Board; M. E. Williams, Pres.; Al Clark, Supt.; Tom Duck, Supt. Pesticide Div. 35,000 tons. 1 mixing plant; 2 base storage houses; belt conveyors.

C—The Southern Cotton Oil Co.

P. O. Box 429; tel: 448. (Main ofc: New Orleans, La.) F. A. Graham, Mgr.

DOERUN

CFH—Shepard Fertilizer Co.
Tel: 5-2160. (Main ofc: Moultrie, Ga.) A. H. McGraw, Prod. Mgr.; W. E. Shepard, Pur. Agt. & Co-Mgr.; Louis Shepard, Co-Mgr. 10-15,000 tons. 1 mill, 25 tons per hr.; conveyor belt for basing; mechanical shovels.

CJ—Toney Bros.
P. O. Box 38; tel: 5-2831. J. W. Toney & B. B. Toney, Ptnrs.; George Daniels, Plant Mgr. 10,000-15,000 tons. Hopper system; belt conveyors.

DOUGLAS

CD—Douglas Fertilizer Co.
Owned by Georgia Fertilizer Co., Valdosta, Ga. 8,000 tons. 1 mill, 150 tons daily.

CFJ—The C. O. Smith Guano Co.
Tel: 611. (Main ofc: Moultrie, Ga.) R. C. Plymale, Gen. Mgr.; Bob Taylor, Plant Mgr.; Jack C. Smith, Mgr. Pesticide Div. 15,000 tons. 2 mills; complete belt system; Inglett hopper batching system.

DUBLIN

C—Carroll Fertilizer Co.
P. O. Box 475; tel: 474. Cecil E. Carroll, Owner & Pur. Agt.; Mendel D. Johnson, Plant Mgr. 5,000 tons. 1 mill; 2 elevators; 150 feet of belt conveyors; 2 Payloaders.

CJ—Lovett & Brinson, Inc.
601 E. Jackson St. W. H. Lovett, Pres.; W. E. Lovett, V.P.; W. W. Brinson, Sec.-Treas. & Pur. Agt.; A. H. Wommack, Plant Mgr. 10,000 tons.

CF—Roche Manufacturing Co.
Tel: 47. W. P. Roche, Owner; Alvis Payne, Plant Mgr. 5,000 tons. 1 mill, 20 tons per hr.; belts used to put mixed fertilizer in bins; Payloader.

C—The Southern Cotton Oil Co.
P. O. Box 509; tel: 81. (Main ofc: New Orleans, La.) R. C. Garrard, Mgr.

EAST POINT

B—International Minerals & Chemical Corp.
(Main ofc: Chicago, Ill.) W. L. Baughcum, Area Mgr.; B. L. Garrett, Dist. Sales Mgr.; O. A. Dixon, Sou. Prod. Supvr.; J. R. Archer, Chief Chemist; Cameron Sinclair, Plant Supt.

B—Tennessee Corp.
(Main ofc: New York, N. Y.) J. K. Plummer, Gen. Mgr. 75,000 tons.

EDISON

C—Fidelity Products Co.
P. O. Box 277; tel: 55. T. N. Wiggins, Ptnr. & Mgr. 3,000 tons.

FAYETTEVILLE

CEFF—Redwine Bros.
Tel: 2661 (Fayetteville); 2261 (Tyrone). H. P. Redwine, Pres. & Pur. Agt.; H. R. Redwine, Sec.-Treas.; W. F. Farr, Plant Mgr. & Mgr. Pesticide Div. 5,000 tons. 1 mill. Plant at Tyrone, Ga.

FITZGERALD

C—The Ben Hill Co.
J. J. Dorminy, Pres.; J. H. Dorminy, Jr., V.P.; Wilmer Dorminy, Sec.-Treas. 1,500 tons.

CJ—Planters Warehouse & Loan Co.
228 E. Central Ave.; tel: 3108. Mrs. E. G. Hale, Pres.; J. H. Dorminy, Jr., V.P.; Sam F. Glenn, Jr., Gen. Mgr. & Pur. Agt.; J. W. McDonald, Sec.-Treas.; E. F. Gaines, Supt. 4,000 tons. 1 mill.

FORT GAINES

C—The Southern Cotton Oil Co.
(Main ofc: New Orleans, La.) L. M. Ray, Mgr.

FORT VALLEY

C—The Fort Valley Oil Co.
P. O. Box 667. D. C. Strother, Pres. & Treas.; E. M. Whiting, V.P., Sec. & Pur. Agt.; Felton Spinks, Plant Mgr. 10,000 tons. 1 mill, 1/2 ton; Atlanta Utility belt conveyors & hopper system; Hough Payloaders.

GAINESVILLE

C—The Tennessee Corp.
(Main ofc: New York, N. Y.) 15,000 tons.

GRIFFIN

CFJ—Newton Crouch
Newton Crouch, Owner; Robt. E. Chappel, Mgr.; J. H. Crouch, Asst. Mgr.; Wilson Bunn, Supt. 15,000 tons.

C—A. F. Gossett & Sons
5th St. & E. Slaton Ave. Partnership; A. F. Gossett, Alex S. Gossett, Gen. Mgr.; H. H. Gossett, Pur. Agt.; Larry Jones, Plant Mgr. 3,000 tons. 1 mill; chain belt.

CFJ—Johnson Fertilizer Co., Inc.
Williamson Road. Box 332. T. E. Johnson, Pres.; W. F. Johnson, V.P.; Martha Johnson, Sec.-Treas.; Roger Scott, Plant Mgr. & Mgr. Pesticide Div. 5,000 tons.

JACKSON

C—Nutt & Bond, Inc.
V. H. Ham, Pres. & Mgr.; Miss Helen Thornton, Sec.; H. G. Harris, Plant Supt. 2,000 tons.

JEFFERSON

C—Carter Fertilizer Co.
Tel: 265. James Carter, Pres. & Mgr.; Vernon Carter, Pur. Agt. 1,500 tons. 1 mill; belt conveyors.

LAGRANGE

B—Swift & Co.—Plant Food Div.
(Main ofc: Chicago, Ill.)

LEARY

CF—The Farmers Warehouse Co.
Tel: 2761; plant tel: 2701. W. H. Jordan, Owner & Pur. Agt.; Wilson R. Owen, Jr., Plant Mgr. 12,000 tons. 1 mill, 25 tons per hr.; Pay-loaders & Georgia buggies.

LOUISVILLE

CF—Louisville Fertilizer & Gin Co.
P. O. Box 192; tel: 2791-2701. R. N. Wigham, Pres.; K. H. Brown, V.P., Pur. Agt. & Mgr.; R. L. Scruggs, Supt. 10,000 tons. 1 Atlanta Utility mill.

CD—Vidette Fertilizer Co.
P. O. Box 362; tel: 2631. W. J. Alexander, Pres. & Mgr. 600 tons. Plant at Vidette, Ga.

McDONOUGH

CD—Turner Fertilizer Co.
G. W. Turner, Pres. 1-2,000 tons.

McRAE

C—The Southern Cotton Oil Co.
(Main ofc: New Orleans, La.) C. L. Tucker, Mgr.

MACON

CD—Central Georgia Fertilizer Co.
350 Poplar St.; tel: 3-9123. Joe B. Hill, Sec.-Treas.; W. Joe Holt, Plant Mgr. 10,000 tons. 1 mill.

A—Cotton States Fertilizer Co.
C. B. Clay, Pres.; W. J. O'Shaughnessy, Sec.-Treas.; R. E. Lucus, Supt. 20,000 tons sulphuric acid, 40,000 tons superphosphate, 35,000 tons mixed fertilizer.

A—F. S. Royster Guano Co.
(Main ofc: Norfolk, Va.) O. O. Banton, Sou. Dist. Supt.; John P. Porter, Sales Mgr.; E. A. Hall, Supt. 50,000 tons.

C—The Southern Cotton Oil Co.
P. O. Box 646; tel: 2-5737; (Main ofc: New Orleans, La.) W. G. Parrish, Mgr. Dist. ofc. for manufacture and sales at following points: Allendale, S. C.; Athens, Cartersville, Columbus, Cordele, Dawson, Dublin, Ft. Gaines, Lavonia, Macon, McRae, Savannah, Tifton, Valdosta, Ga.

MADISON

C—Mason Gin & Fertilizer Co.
C. R. Mason, Pres.; C. L. Mason, Sec.-Treas. 3,000 tons.

MANCHESTER

CFJ—James S. Peters Fertilizer Co.
Tel: 89. J. E. Peters, Owner; Harrison W. Bray, Mgr.; Robert J. Brown, Plant Mgr. 6,500 tons.

MEIGS

CFJ—J. L. Pilcher & Sons, Inc.
J. L. Pilcher, Pres.; Chas. C. Pilcher, V.P.; J. S. Parkman, Plant Mgr. 6,000 to 8,000 tons.

CDF—Standard Fertilizer Co.

Tel: 2211. Tom Tipton, Pres.; T. C. Tipton & J. W. Bozeman, Jr., V.P. & Pur. Agts.; Mrs. Arnold Vick, Sec.; C. L. Alligood, Plant Mgr. 6,000 tons. 1 mill; 620-ft. individual belt conveyors.

MILLEN

C—The Millen Fertilizer Co.
E. M. Thorne, V.P. 5,000 tons.

MONROE

CFJ—H. M. Arnold Fertilizer Co.
Tel: 5122. H. M. Arnold, Pres., Treas. & Pur. Agt.; Mrs. H. M. Arnold, V.P.; G. A. Lewis, Sec.; Roy Willingham, Plant Mgr.; J. C. Dillard, Prod. Mgr. 12,000 tons.

CF—Monroe Oil & Fertilizer Co.
(Subsidiary of The Southern Cotton Oil Co., New Orleans, La.)

P. O. Box 366. J. T. Preston, Pres.; C. E. Harris, Sec.-Treas. 6,000 tons. 1 mill.

MONTICELLO

CJ—The Farmers Union Warehouse Co.

Frobel St. D. N. Harvey, Pres.; H. G. Cress, V.P.; Herschel Allen, Sec.-Treas.; E. S. Goolsby, Mgr. & Mgr. Pesticide Div. 2,000 tons.

MOULTRIE

CF—Shepard Fertilizer Co.
P. O. Box 329; tel: 406. W. E. Shepard (Prod. Mgr.) & Louis Shepard, Co-Mgrs.; Guyte McLendon, Plant Supt. 10,000 tons. 1 mill, 25 tons per hr.; installing conveyor belt for basing. Plant also at Doerun, Ga.

AFJ—C. O. Smith Guano Co.

P. O. Box 69; tel: 146 & 105. C. O. Smith, Sr., C. O. Smith, Jr., and Jack C. Smith, Ptnrs.; O. E. Perry, Plant Mgr.; Frank Murphy, Jr., Prod. Mgr.; Jack C. Smith, Mgr. Pesticide Div. 100,000 tons. 5 mills; complete belt systems; Inglett hopper batching system. Plant also at Douglas, Ga.

C—T. F. Taylor Fertilizer Works, Inc.

T. F. Taylor, Pres., Treas. & Pur. Agt.; Faith T. Carter, V.P.; Tommie S. Taylor, Sec.; J. C. Hamby, Supt. 15,000 tons.

NASHVILLE

CEFJ—Berrien Product Co., Inc.
Tel: 8831. J. D. Tygart, Pres.; W. W. Moore, V.P., Gen. Mgr., Pur. Agt. & Mgr. Pesticides Div.; J. H. Harvey, Board; Mrs. J. H. Harvey, Sec.-Treas.; James A. Harnage, Plant Mgr.; Phin Avera, Prod. Mgr. 10,000 tons. 1 mill, 1 ton.

NEWBORN

CF—Planters Warehouse Co.
Tel: 5024. H. C. Adams, Pres.; Mrs. Mary Adams, V.P.; R. N. Adams, Sec.-Treas. Mgr. & Pur. Agt. 3,000 tons. 1 Atlanta Utility mill, ¼ ton; Payloader; Burch conveyor.

NEWMAN

C—Georgia Belle Guano Co.
Tel: 691. M. C. Farmer, Pres. & Pur. Agt.; H. A. McKoy, Sec.-Treas. 5,000 tons. 1 mill, 1 ton; bulk belt conveyors; hopper system.

OCILLA

CF—Ocilla Oil & Fertilizer Co.
Tel: 53. Otto Griner, Pres. & Pur. Agt.; M. V. Griner, V.P.; J. D. Paulk, Sec.-Treas.; A. T. Owen, Plant Mgr. 10,000 tons. 1 mill, 30 tons per hr.; 8 unit hopper system; automatic solution equipment.

OMEGA

CFJ—Omega Finance Co. & Omega Fertilizer Whse.

J. D. McCleod, Sr., & J. D. McCleod, Jr. (Pur. Agt.), Ptnrs.; A. J. Frazier, Plant Mgr.; Raymond Frazier, Prod. Mgr. 6,000 to 10,000 tons.

PELHAM

AF—Pelham Phosphate Co.

P. O. Box 463; tel: 3261. L. D. Hand, Pres.; F. D. Hollis, V.P.; F. B. Hand, Asst. to Pres.; J. A. Oxford, Sec.-Treas.; A. J. Cooke, Supt.; H. H. McDonald, Sales Mgr. 60,000 tons. 6 hopper system; belt system for mixed fertilizers; belt system for conveying superphosphate.

REYNOLDS

CD—Hinton & Co.
Tel: 117. B. W. Hinton, Owner; B. W. Hinton, Jr., Plant Mgr. 3,000 tons. 1 mill, ½ ton.

ROCHELLE

Doster Guano Co.
N. B. Doster, Mgr. 5,000 tons.

C—Mashburn & Fitzgerald
(Partnership) H. S. Fitzgerald, Mgr. Fertilizer Dept. 1,000 tons.

ROME

A—Virginia-Carolina Chemical Corp.
Tel: 3402. (Main ofc: Richmond, Va.)

ROYSTON

C—McConnell Fertilizer Co., Inc.
P. O. Box 167. Hoke McConnell, Pres.; Belton Roach, Plant Mgr. 8,000 tons.

RUTLEDGE

CF—Rutledge Manufacturing Co.
R. W. Wallace, Pres.; J. W. Hollis, V.P.; J. W. Herren, Treas.; J. L. Saye, Sec. & Plant Mgr. 4,000 tons.

SANDERSVILLE

CDFJ—Carr-Boatright
T. C. Carr, J. H. Boatright, Ptnrs. 4,000 tons.

SAVANNAH

A—The American Agricultural Chemical Co.

P. O. Box 567. (Main ofc: New York, N. Y.) B. C. Griffin, Mgr.; C. R. LeCory, Supt.

C—Blue Belt Fertilizer Co.

P. O. Box 692. C. W. Smith, Pres.; C. B. Smith, V.P.; M. M. James, Sec.-Treas.; W. C. Hendrix, Plant Mgr. 20,000 tons.

CE—The Cotton Producers' Assn.

Siding on A. C. L. R. R. (Main ofc: Atlanta, Ga.) 20,000 tons.

C—Davison Chemical Co.—Div. W. R. Grace & Co.

P. O. Box 246; tel: 2-2123. (Main ofc: Baltimore, Md.) U. S. Aaron, Sales Mgr.

C—The Moore Co.

P. O. Box 181; tel: 2-3334. James N. Moore, Jr., Pres.; T. G. Moore, V.P.; James N. Moore, III, Sec.-Treas.; E. W. Mathis, Plant Mgr. 3,000 tons. 1 mill, 150 tons daily; belt conveyor.

BF—Mutual Fertilizer Co.

P. O. Box 666; tel: 8115. Charles Ellis, Chmn. of Board; Charles Ellis, Jr., Pres. & Treas.; H. Danna Stevens, Sec.; J. J. Foran, Supt.; J. S. Salter, Prod. Mgr. 40,000 tons.

C—The Reliance Fertilizer Co.

P. O. Box 529. John L. Cope, Pres. & Treas.; James E. Cope, V.P.; Donald H. Sack, Sec.; M. C. Waters, Sr., Supt. 25,000 tons. 2 mills, 1 ton Sturtevant, 2 ton Worthington Ransome; Davidson-Kennedy hopper system.

A—Southern Fertilizer & Chemical Co.

P. O. Box 1158; tel: 4-7281. A. D. Strobhar, Pres.; W. Dewey Cooke, V.P., Sec.-Treas.; Allen D. Brent, V.P., Prod.; W. W. Harley, V.P., Sales; Herbert Respass, Prod. Mgr.; C. E. Donnelly, Plant Mgr. Plants also at Atlanta & Vidalia, Ga.; Charleston & Roebuck, S. C.

AJ—Southern States Phosphate & Fertilizer Co.

A.C.L. Wharf; P. O. Box 546; tel: 2-1101. F. R. Dulany, Pres., Treas. & Pur. Agt.; W. H. Read, V.P.; F. D. Bishop, V.P.; Mrs. Mary D. Lovett, Sec.; R. B. Baldrige, II, Plant Mgr.; J. D. Lee, Asst. Supt. & Prod. Mgr. 150,000 tons. 5 mills (rock mills—8 tons per hr., regular mills—60 tons per hr.); completely integrated bulk conveyor systems and hopper mixing system.

C—Swift & Co.—Plant Food Div.

Box 1258. (Main ofc: Chicago, Ill.) W. U. Bremer, Mgr.

A—Virginia-Carolina Chemical Corp.

Tel: 3-7778 & 3-7779; Factory tel: 2-1813; (Main ofc: Richmond, Va.)

SENOIA

CE—C. P. Daniel's Sons

F. P. Daniel, Ptnr. & Prod. Mgr.; E. E. Caldwell, Plant Mgr. 5,000 tons.

C—P. R. McKnight & Son Gin Co.

F. R. McKnight, Owner; J. C. Johnson, Supt. 1,000 tons.

SOCIAL CIRCLE

CDPJ—Circle Manufacturing Co.

Owned by Duval & Co. G. M. Duval, Jr., Pres.; Fred B. Duval, V.P.; L. Stanton Duval, Sec.-Treas. 3,000 tons.

SOPERTON

CF—Soperton Guano Co.

Tel: 128; Plant tel: 171. J. E. Hall, Pres.; J. B. O'Conner, V.P.; J. E. Hall, Jr., V.P., Treas., Pur. Agt. & Mgr.; R. E. Ward, Asst. Treas.; Sidney Smith, Supt. 4,000 tons. 1 mill, ½ ton; belt conveyor taking fertilizer from mixer.

STATESBORO

CJ—Smith Fertilizer Co.

H. Z. Smith, Owner; Joe C. Fuller, Plant Mgr.; H. Z. Smith, Jr., Mgr. Pesticide Div. 3,000 tons.

SYLVANIA

CFJ—Evans, Reed & Williams

Partners: David W. Reed, J. P. Evans (Pur. Agt.), H. A. Williams, Jr.; Fred Jenkins, Geo. Lee, Plant Mgrs. 8,000 tons. 1 mill; complete conveyor system; 4 hoppers over Cunningham sealed scale (dial) for formulating; 2 Payloaders.

C—Screven Oil Mill

Tel: 3661. P. H. Brewster, Pres.; G. E. Miller, Sec. & Mgr.; W. E. Brewster, Treas.; A. L. Landing, Plant Mgr. 5,000 tons.

SYLVESTER

CE—The Cotton Producers' Assn.

Siding on G. A. S. & C., and A. C. L. Rwy. (Main ofc: Atlanta, Ga.) 6,000 tons.

THOMASVILLE

CF—Thomasville Fertilizer Co.

Box 417; tel: 207. J. R. Alexander, Pres.; J. E. Sanders, Sec.-Treas.; Ivan B. Stegall, Plant Mgr. 7,000 tons. 1 mill, 700-lb; Link-Belt conveyors, hoppers.

THOMSON

CHJ—McDuffie Oil & Fertilizer Co.

Paul A. Bowden, Pres. 4,000 tons.

TIFTON

B—International Minerals and Chemical Corp.

(Main ofc: Chicago, Ill.) T. M. Freeman, Supt.

TYRONE

CFJ—Redwine Brothers

Tel: 2261. (Main ofc: Fayetteville, Ga.) W. F. Farr, Plant Mgr. 6,000 tons.

VALDOSTA

AF—Georgia Fertilizer Co.

R. L. King, Pres., Gen. Mgr. & Prod. Mgr.; Hoke Smith, V.P.,

Sec.-Treas.; W. J. Culpepper, Plant Mgr. 75,000 tons. 5 mills, 1,750 tons daily; mechanized basing unit; 3 drag lines; 3 large Payloaders, 6 small Payloaders; 6 tilt dump Hough transporters; 1 long overhead belt conveyor & Clark tractor length of plant; 6 cross belt conveyors. Plant also at Douglas, Ga.

VIDALIA

Vidalia Chemical Co.

(Owned by Southern Fertilizer & Chemical Co., Savannah, Ga.) O. R. Swofford, Mgr. 26,000 tons.

VIDETTE

CD—Vidette Fertilizer Co.

(Office at Louisville, Ga.) W. J. Alexander, Pres. & Mgr. 600 tons.

VIENNA

C—Dooley Fertilizer Co.

N. E. Brown, Owner; W. M. Easom, Supt. 1,500 tons.

WARRENTON

C—The Southern Cotton Oil Co.

(Main ofc: New Orleans, La.) W. M. Williams, Jr., Mgr.

WASHINGTON

CFJ—M. H. Barnett

Tel: 38; whse. tel: 498-W. M. H. Barnett, Pres. & Pur. Agt.; Carl Sisson, Prod. Mgr. 2,500 tons. 1 mill, small old-type ½ ton mixer; hopper and screw conveyor, batch mixer.

Burdette Mill & Gin Co.

Walter E. Burdette, Owner.

WAYNESBORO

CFJ—Waynesboro Fertilizer Co.

Myrick St.; tel: 2106. R. C. Neely, Pres.; R. C. Neely, Jr., V.P. & Supt.; J. W. Walker, Jr., Sec., Pur. Agt. & Mgr. Pesticide Div.; Jesse McCullough, Prod. Mgr. 6,000 tons. 1 mill; 1 ton Ransome mixer; 2 longitudinal conveyors; one cross conveyor; Inglett automatic hopper system.

WINDER

CJ—Southern Guano Co.

S. W. Draper, Pres.; C. O. Maddox, Sec.-Treas. 5,000 tons.

WRIGHTSVILLE

C—Lovett & Co., Inc.

Tel: 3448. W. H. Lovett, Pres.; W. E. Lovett, V.P.; Lewis L. Lovett, Sec.-Treas.; B. B. Blount, Supt. 2,000 tons. 1 mill, ¼ ton; chain conveyor for removing fertilizer; Payloader for bringing in materials.

ZEBULON

CF—Zebulon Ginning & Fertilizer Co.

Tel: 58. (Subsidiary Southern Cotton Oil Co., New Orleans, La.) A. W. Quattlebaum, Sec. & Mgr. 10,000 tons. 1 dry mixer.

IDAHO

BOISE

CD—Cimota-Enterprises, Inc.

Room 330, Sonna Bldg. E. V. Story, Pres. & Pur. Agt.; Martha Richards, Sec.; D. Demary, Plant Mgr. 36,000 tons.

CD—Soilife, Inc.

H. T. Hitt, Pres.; J. P. Gillmore, V.P. & Gen. Mgr.; Conover Wright, Treas.; D. C. Regan, Sec. & Prod. Mgr. 50,000 tons—finished; 300,000 tons mine run minerals.

CALDWELL

C—Simplot Soilbuilders of Caldwell—Div. J. R. Simplot Co.

Tel: 9-3694. (Main ofc: Pocatello, Idaho.) Ralph Nyblad, Gen. Mgr.; L. Davis, Plant Mgr. 10,000 tons.

IDAHO FALLS

CGHJ—Idaho Falls Bonded Produce & Supply

Box 337. A. G. Stanger, Pres.; Marshall Keyes, Pur. Mgr. & Mgr. Pesticides Div.; Francis Nelson, Plant Mgr. 10,000 tons. 1 mill, 40-50 tons daily; unloading bulk elevator; elevator; ½ ton mixer.

C—Simplot Soilbuilders of Idaho Falls—Div. J. R. Simplot Co.

Tel: 63. (Main ofc: Pocatello, Idaho.) Jack L. Wurston, Gen. Mgr. 10,000 tons.

Utah Idaho Sugar Co.

David O. McKay, Pres.; Douglas Scalley, V.P.; T. Wm. Cockayne, Sec.-Treas.; D. H. Thomas, Pur. Agt. 4-5,000 tons.

LEWISTON

CGI—North Idaho Chemical Co., Inc.

P. O. Box 622. Chas. A. Fite, Pres., Plant Mgr., & Mgr. Pesticide Div.; F. C. Hassinger, V.P.; Alyce I. Fite, Sec.-Treas. 5,000 tons. 1 mill.

NAMPA

CJ—Lewis Yoder Co., Inc.

John L. Yoder, Pres.; James G. Yoder, V.P. & Pur. Agt.; Doris Wohlgamuth, Sec.-Treas.; K. Miziguchi, Plant Mgr.

POCATELLO

B—J. R. Simplot Co.

Box 912. J. R. Simplot, Pres.; John Dahl, Sec.; Austin Richins, Plant Supt.; W. Grant Kilbourne, Gen. Mgr.; Ben D. McCollum, Sales Mgr.; Dale Dunn, Prod. Mgr. 90,000 tons triple superphosphate, 4 mills, 30-40 tons per hr.; completely mechanized as to handling equipment. Plants also at: Greeley & Swink, Colo.; Caldwell, Idaho Falls, Rupert & Twin Falls, Idaho; Klamath Falls, Oreg.; Walla Walla, Wash.

RUPERT

Simplot Soilbuilders of Twin Falls—Div. J. R. Simplot Co.

Tel: 260; (Main ofc: Pocatello, Idaho) C. E. Brissenden, Whse. Mgr. 5,000 tons.

TWIN FALLS

C—Simplot Soilbuilders of Twin Falls—Div. J. R. Simplot Co.

700 Shoshone St., West; tel: 2478. (Main ofc: Pocatello, Idaho) J. D. McCollum, Gen. Mgr.; John Allen, Whse. & Prod. Mgr. 20,000 tons.

WENDELL

AEG—Gates Brothers, Inc.

Chas. T. Gates, Pres.; F. Quincy Gates, Sec.-Treas.; George F. Wilkins, Gen. Mgr. 7,000-18,000 triple phosphoric acid.

ILLINOIS

ATLANTA

C—Hoblit-Bonnett Fertilizer Co.

Tel: 3481. Frank D. Hoblit, Ptnr. & Prod. Mgr.; Yontz Bonnett, Ptnr. & Pur. Agt. 4,000 tons.

CAIRO

CD—Darling & Co.

(Main ofc: Chicago, Ill.) R. S. Lewis, Plant Mgr.; E. K. Mitchell, Cash.; W. J. Corl, Pur. Agt.

CALUMET CITY

Spencer Chemical Co.

(Main ofc: Kansas City, Mo.) R. W. McKinney, Wks. Mgr.; W. T. Landrum, Plant Mgr.

A—Swift & Co.—Plant Food Div.

150 Marble St. (Main ofc: Chicago, Ill.) K. Wagenseller, Mgr.

CHICAGO

ADG—Darling & Co.

4201 S. Ashland Ave. A. R. Bethke, V.P.; G. K. Walton, Mgr. Fert. Div. W. T. Corl, Pur. Agt. Plants at: Cairo & E. St. Louis, Ill.

B—Illinois Farm Supply Co.

100 E. Ohio St.; tel: Whitehall 4-3171. (Main ofc: E. St. Louis, Ill.) W. Brooks, Plant Mgr. 50,000 tons. 2 mills; plant completely mechanized.

The International Minerals & Chemical Corp.

Main ofc: 20 N. Wacker Dr. Louis Ware, Pres.; James P. Margeson, Jr., Exec. V.P.; Maurice H. Lockwood, V.P., Plant Food Div.; Arthur R. Cahill, V.P. & Treas.; George W. Moyers, V.P., Phosphate Minerals Div.; Howard F. Roderick, V.P., Phosphate Chemicals Div.; A. Norman Into, V.P., Potash Div.; Dr. Paul D. V. Manning, V.P., Research Div.; Edward D. McDougal, Jr., V.P. & Gen. Counsel; Norman J. Dunbeck, V.P., Industrial Minerals Div.; T. M. Ware, V.P., Engineering Div.; Edward Tubbs, Comptroller; J. P. Burrows, Gen. Pur. Agt.;

A. C. Thornton, Industrial Relations Mgr. E. J. Landis, Gen. Traffic Mgr.; Stacy C. Thompson, Gen. Credit Mgr.; J. F. Stough, Sales Mgr., Plant Food Div.; F. S. Walters, Northern Prod. Supvr., Plant Food Div.; Dr. R. P. Thomas, Mgr. Technical Service; R. A. MacDonald, Mgr. Development Dept.; H. F. Lange, Chief Engr., Plant Food Div.; Rufus G. Hartig, Chemical Prod. Supvr.

Swift & Co.—Plant Food Div.

Main office. Union Stock Yards; (Zone 9); tel: YArds 7-4200. John Holmes, Pres.; C. T. Prindle, V.P.; A. L. Bruckner, Treas.; A. H. Fritschel, Sec.; A. F. Miller, Gen. Mgr.; B. W. Guess, Pur. Agt.

C—Victor Chemical Wks.

141 W. Jackson Blvd. (Zone 4.)

C—Wilson & Co.

4100 S. Ashland Ave. (Zone 9.); tel: YArds 7-4000, Ext. 281. J. D. Cooney, Pres.; F. K. Foss, V.P.; Paul Ware, Sec.; G. W. Rielly, Pur. Agt. 10,000 tons.

CHICAGO HEIGHTS

A—Armour Fertilizer Works

(Main ofc: Atlanta, Ga.) G. W. Woodhull, Div. Mgr.

B—International Minerals & Chemical Corp.

(Main ofc: Chicago, Ill.) J. D. Ziegler, Area Mgr.; E. T. Potterton, Dist. Sales Mgr.; D. B. Rust, Supt.

CLINTON

CFGHJ—Marquiss Farm Supply Co.

Box 127; tel: 984. C. E. Marquiss, Owner and Mgr. 16,500 tons.

CONGERVILLE

CEFGHJ—Schrock Fertilizer Service—Div. Schrock Bros. Co.

(Main ofc.) Tel: 801 (Purchases made here for all plants.) J. B. Schrock, Pres. and Gen. Mgr.; A. J. Schrock, V.P. & Treas.; Kenneth W. Cross, V.P. & Pur. Agt. Total production capacity and sales volume (actual) including subsidiary plants—200,000 tons.

DANVILLE

B—The Buhner Fertilizer Co., Inc.

Box 152; W. Ross Lane; tel: 982, 983. F. F. Buhner, Pres.; M. R. Buhner, 1st. V.P.; E. J. Buhner, Sec.-Treas.; C. R. Sparks, V.P. & Gen. Mgr.; F. G. Smith, Sales Mgr.; Chas. Everhart, Plant Mgr.; Raymond Clark, Supt. 75,000 tons. 2 mills, 75,000 tons each; bagging machines; Broadfield den; basing mill; bulk loading equipment; overhead crane; 3,000 ft. of conveyors. Plant also at Seymour, Ind.

B—Federal Chemical Co.

West Ross Lane. (Main ofc: Louisville, Ky.) John H. Langsford,

Plant Mgr.; F. A. Houk, Div. Sales Mgr. Acidulating, ammoniating & mixing plant.

EAST ST. LOUIS

B—Armour Fertilizer Works
(Main ofc: Atlanta, Ga.) F. M. Hudson, Div. Mgr.

B—Darling & Co.
(Main ofc: Chicago, Ill.) W. W. Read, Plant Mgr.

B—Illinois Farm Supply Co.
6400 Collinsville Rd.; tel: Upton 4-3568. C. H. Becker, V.P. & Gen. Mgr.; Jno. J. Lanter, Asst. Gen. Mgr.; J. C. Dorward, Dir. of Mfg.; L. E. Quiram, Mgr.—Plant Food Div.; T. H. Laurent, Plant Mgr.; Philip Casperson, Prod. Mgr.; O. J. Crossmann, Pur. Agt. 60,000 tons. Plant also at Chicago, Ill.

B—Virginia-Carolina Chemical Corp.
Tel: Bridge 1-3720 & LD Bridge 13313. (Main ofc: Richmond, Va.)

FULTON

A—The American Agricultural Chemical Co.
P. O. Box 150. (Main ofc: New York, N. Y.) J. J. Doyle, Supt.; G. F. Cummings, Mgr.

GRANITE CITY

Smith Rowland Co.—Div. Smith-Douglass Co., Inc.
Tel: Glenview 2-6160. (Main ofc: Norfolk, Va.) V. J. Kovarik, Mgr. 25,000 tons nitrogenous tankage.

MILAN

CDGI—Whitley Chemical Corp.
Tel: 7-2458. H. Whitebook & A. Levin. 50 tons per day.

MORRIS

C—Guchrist Plant Food Co.
525 W. Washington St. B. R. Gilchrist, Pres.; R. S. Gilchrist, Sec. 6,000 tons. 2 mills; hopper system; all belt movement.

NATIONAL STOCK YARDS

A—The American Agricultural Chemical Co.
Box E. (Main ofc: New York, N. Y.) J. W. Engle, Mgr.; R. M. Crain, Supt.

B—Swift & Co.—Plant Food Div.
(Main ofc: Chicago, Ill.) A. N. D'Aubert, Mgr.

PEORIA

Manito Filler Co., Inc.
806 Lehmann Bldg.; tel: 6-6524. L. H. Erler, Pres.; Mrs. W. W. Furey, V.P. & Treas.; Jno. C. Kocsoban, Sec.; Thomas Charlton, Plant Mgr. 3,200 tons organic earth.

STREATOR

AD—Smith-Douglass Co., Inc.
(Main ofc: Norfolk, Va.) R. J. Fitzgerald, Plant Mgr.

INDIANA

BRIDGETON

C1—Benson-Maclean
Tel: Rockville 2974-R. W. L. Benson, E. I. Killion. Solution & soluble pellet & powder plant food.

BUTLER

C—Longaker Mills, Inc.—Div. Federal Chemical Co.
300 Depot St., tel: 266. (Main ofc: Louisville, Ky.) J. D. Stewart, Jr., Pres.; J. T. Marshall, V.P.; G. W. Shields, Treas.; Floyd Lucas, Sec. & Div. Sales Mgr.; J. T. Marshall, Plant Mgr.; Walter Harding, Pur. Agt. Mixing & acidulating.

COLUMBIA CITY

C—Indiana Farm Bureau Cooperative Assn., Inc.
P. O. Box 244. (address all mail to: A. R. Mullin); tel: (Indianapolis) Ma-9361. (Main ofc: Indianapolis, Ind.) Arthur R. Mullin, Fert. Dept. Mgr.; Ben R. Scharrer, Prod. Mgr.; Robert Leach, Supt. 40,000 tons. 1 shipping unit; 1 basing unit; belt conveyors & hopper system.

EVANSVILLE

CGJ—J. A. McCarty Seed Co.
Tel: 5-5131. Partnership: J. A. McCarty, Mrs. J. A. McCarty, James A. McCarty, Geo. K. Black, (Prod. Mgr. & Mgr. Pesticide Div.), Nell Martin. 1,500 tons.

FORT WAYNE

B—Virginia-Carolina Chemical Corp.
Tel: Anthony 5179. (Main ofc: Richmond, Va.)

FOWLER

CEFGJ—Senesac Soil Service
Tel: 185. W. A. Senesac, Mgr.; Ralph Puetz, Plant Mgr.

FRANCESVILLE

CEFGHJ—Gutwein Agricultural Service, Inc.
Tel: 235. Lewis Gutwein, Pres.; Conrad Gutwein, V.P. 5,000 tons. 1 mill, 25 tons per hr.; 3 upright elevators; 1 hopper weighing system; 1 mixer; 1 pulverizer; 1 screen.

GREENSBURG

C—Kova Fertilizer, Inc.
7th and Anderson Sts.; tel: 3-9591. Francis W. Reed, Pres., Treas. & Plant Mgr.; Lowell W. Headlee, V.P.; Marie T. Goddard, Sec. 10,000 tons.

HOBART

CD—American Brand Fertilizer Co.
254 Michigan Ave.; tel: Hobart 1156-J. John Greenberg, Pres.

INDIANAPOLIS

B1—Indiana Farm Bureau Cooperative Assn., Inc.

47 S. Pennsylvania St.; tel: Market 9361. C. E. Moseley, Pres.; Frank Hanna, V.P.; Wm. Kenneth Miller, Treas.; M. R. Bradley, Sec.; Arthur R. Mullin, Fert. Dept. Mgr.; Ben R. Scharrer, Prod. Mgr.; L. M. Leach, Supt.; Walter Weber, Mgr. Pesticide Div. 90,000 tons. 3 shipping units; 1 basing unit; belt conveyors and hopper system. Plants also at Columbia City & Jeffersonville, Ind.

B—Kingsbury & Co., Inc.

P. O. Box 7107, Brightwood Sta.; tel: Cherry 2496. Geo. H. Kingsbury, Pres.; Edw. D. Kingsbury, V.P.; James L. Schell, Sec.-Treas.; M. H. Talbott, Supt. Plant also at Peru, Ind.

B—E. Rauh & Sons Fertilizer Co.

(Main ofc: Indianapolis Stockyards.) S. J. Martenet, Pres.; R. D. Martenet, Exec. V.P.; J. J. Weldon, Treas.; H. M. Lee, Sec.; L. E. Little, V.P., Prod. Mgr. & Pur. Agt. Plants also at Plymouth, Ind. & Sylvania, Ohio.

B—F. S. Royster Guano Co.

(Main ofc: Norfolk, Va.) M. V. Ray, Sales Mgr.; P. H. Keiner, Supt. 80,000 tons.

BIJ—The Smith Agricultural Chemical Co.

(Main ofc: Columbus, Ohio) Wm. F. Farley, Div. Mgr.; Glenn Webber, Supt.; Earl F. Cline, Prod. Mgr.; Carl E. Veth, Sec. & Pur. Agt. 25,000 tons.

DG—Aldredge Industrial Oils, Inc.

Liquid fertilizer.

JEFFERSONVILLE

C—Armour Fertilizer Works
(Main ofc: Atlanta, Ga.) W. H. Cover, Div. Mgr.

BF—Indiana Farm Bureau Cooperative Assn., Inc.

P. O. Box 149; tel: (Indianapolis) Ma 9361. (Main ofc: Indianapolis, Ind.) Arthur R. Mullin, Mgr. Fert. Dept.; Ralph Middaugh, Supt.; Ben R. Scharrer, Prod. Mgr. 40,000 tons. 2 shipping units; 1 basing unit; conveyors & hopper system.

B—Shea Chemical Corp.

P. O. Box 326; tel: 2-1381. (Main ofc: Baltimore, Md.) Ed. Pomerleau, Plant Mgr.; J. R. Durrell, Pur. Agt. 80,000 tons.

NEW ALBANY

C—Davison Chemical Co.—Div. W. R. Grace & Co.

P. O. Box 350, Grant Line Rd.; tel: 5-6671. (Main ofc: Baltimore, Md.) C. C. Dorsey, Pur. Agt.; J. L. Gayle, Plant Mgr.; Major Hancock, Supt.

BH—Tennessee Corp.

(Main ofc: New York, N. Y.) L. J. Pettett, Gen. Mgr. 30,000 tons.

PERU

C—Kingsbury & Co., Inc.

Tel: 7535. (Main ofc: Indianapolis, Ind.) Ivan Mills, Div. Mgr.; Harvey E. O'Neill, Supt.

PLEASANT RIDGE

CDF—Jasper County Farm Bureau Co-Op

Tel: 937-G. (Main ofc: Rensselaer, Ind.) R. W. Frantz, Plant Mgr. 6,000 tons.

PLYMOUTH

C—E. Rauh & Sons Fertilizer Co.

P. O. Box 428; tel: 3196, L.D. 16. (Main ofc: Indianapolis, Ind.) L. E. Little, V.P., Prod.; Herman J. Fisher, Plant Mgr.; Walter Cockrell, Prod. Mgr. 50,000 tons. 2 shipping mills, total 75 tons per hr.; 1 mill, 50 tons per hr.; Sackett hopper system & belt conveyors.

RENSSELAER

Jasper County Farm Bureau Co-Op

Tel: 660. Harold Sage, Pres.; Arthur E. Arnott, Gen. Mgr.; R. W. Frantz, Plant Mgr.; Marvin Luers, Prod. Mgr.; Lloyd Edrington, Pur. Agt. Plant: Pleasant Ridge, Ind.

RUSHVILLE

C—The Morris Fertilizer Co.

P. J. Prosser, Pres.; K. H. Renegar, Exec. V.P.; Benjamin H. Brewster, Jr., V.P.; R. S. Hoffman, Sec. Treas.; R. Bruce Golightly, Prod. Mgr.

C—V. W. Norris & Son, Inc.

130 E. 2nd St.; Box 505; tel: 3117. Alfred C. Norris, Pres.; Kenneth H. Cline, V.P.; Kathryn Norris, Sec. Treas.; Walker Elliott, Plant Mgr. 20,000 tons. 2 mills, 1 ton; crane.

SCHERERVILLE

B—Cooperative Plant Foods, Inc.

P. O. Box 6; tel: Dyer 2811. Main office. Arthur R. Mullin, Pres.; Milo Dahl, V.P.; L. E. Quiram, Sec. Treas.; Wm. H. Henderson, Gen. Mgr.; R. F. Marek, Controller; Donald C. Lind, Plant Mgr. 60-70,000 tons.

SEYMOUR

CDG—The Buhner Fertilizer Co.

P. O. Box 239. (Main ofc: Danville, Ill.) C. R. Sparks, V.P. & Gen. Mgr.; Ray Vondielingen, Plant Mgr. 30,000 tons. 2 mills; Bedford Crane; hopper system (own design).

IOWA

DES MOINES

CGI—Iowa Farm Supply Co.

10th & Grand Ave.; P. O. Box 794; tel: 2-8171. (Affiliated with Iowa Farm Bureau Federation: E. Howard Hill, Pres.; Donald B. Groves, Sec. Treas.) John Mark, Dir. Fert.

Div., Prod. Mgr. & Pur. Agt.; E. O. Johnston, Gen. Mgr.; Phil Cooper, Mgr. Pesticide Div.; W. E. Llewellyn, Supt. 60,000 tons. 3 mills; hopper system; belt conveyors. (Operate plant also at Pocahontas, Iowa.)

CGI—National Fertilizer Co.

P. O. Box 615; tel: 6-5139. (Subsidiary of National By-Products, Inc., Des Moines, Iowa. E. J. Lindhardt, Pres.; H. A. Ackerley, V.P. —plants also at Denver, Colo., & Fairbury, Nebr.) Fred D. Ioeberger, Plant Mgr. & Pur. Agt.; Dwaine D. Hockett, Prod. Mgr. 15,000 tons.

CFJ—Pioneer Phosphate Co., Inc.

125 S. W. 4th St.; tel: 4-5181. John A. Roberts, Pres., Treas. & Pur. Agt.; Patricia H. Roberts, V.P.; Sumner M. Macomb, V.P., Sec. & Plant Mgr. 7,000 tons. 2 mills, 10 tons per hr.; belt conveyors.

DUBUQUE

B—Virginia-Carolina Chemical Corp.

Tel: 2-3635; Factory tel: 2-0786. (Main ofc: Richmond, Va.)

EAGLE GROVE

CDJ—Consumers Cooperative Assn.

Tel: 608. (Main ofc: Kansas City, Mo.) Gordon Hoath, Gen. Mgr.; Rex Blankenship, Supt.; W. L. Barrett, Mgr. Pesticide Div. 20,000 tons. Belt conveyors; granulation equipment.

GRINNELL

CDEFGHJ—Cornland Plant Foods

230 Park St.; P. O. Box 276. W. W. Venable & R. E. Sorensen, Ptnrs.; James R. Lincoln, Plant Mgr. 25,000 tons mixed fertilizer. 2 mills, 25,000 tons each; complete conveyor system; cooler & dryer; Inglett & Corley bagger.

HIGHVIEW

CDF—Agricultural Products Corp.

(Ofc: Webster City) Karl H. Frantzen, Supt. & Pur. Agt.; Wendell Henderson, Prod. Mgr. 15,000 tons. 2 mills; 275 ft. of conveyors; 3 elevators.

MASON CITY

A—International Minerals & Chemical Corp.

(Main ofc: Chicago, Ill.) J. W. Hicks, Dist. Sales Mgr.; Edward P. Ruszat, Supt.

Swift & Co.—Plant Food Div.

Brick & Tile Bldg.; P. O. Box 1127. (Main ofc: Chicago, Ill.) W. E. Smith, Mgr.

MOUNT PLEASANT

CDR—Henry County Supply Corp.

Bryon Cary, Pres.; R. K. Earnest, V.P.; Lester McCorhen, Sec. Treas.; Harold Knedler, Gen. Mgr. & Pur. Agt.; Dale Kinney, Plant Mgr. 3,000 tons. 1 mill, 24 tons per hr.; 2 24-ft. elevators; 1 24-ft. belt

conveyor; 1 50-ft. belt conveyor; 1 16-ft. screw; 2 mixing boxes; 1 Hough tractor.

PERRY

B—Davison Chemical Co.—Div. W. R. Grace & Co.

Tel. 1270. (Main ofc: Baltimore, Md.) C. C. Dorsey, Pur. Agt.; H. E. Clayton, Mgr.; Geo. Orndorf, Supt.

POCAHONTAS

CGJ—Iowa Farm Supply Co.

(Main ofc: Des Moines, Iowa) Roy S. Bondurant, Supt. 15,000 tons.

ROCK RAPIDS

CFGRIJ—Delta Phosphate Co.

(Ofc: Sioux City, Iowa) Peter Menage, Plant Mgr. 10,000 tons.

SIoux CITY

Delta Phosphate Co.

624 Badgerow Bldg. Tom Vint, Owner. Plant: Rock Rapids, Ia.

WATERLOO

C—The Rath Packing Co.

Tel: ADms. 3-3341. R. A. Rath, Chmn. of Board; Howard H. Rath, Pres.; A. D. Donnell, Exec. V.P.; Jno. A. Muth, V.P.—Sales and Adv.; Ray S. Paul, V.P.—Beef Veal & Lamb Dept.; Dal A. Kilpatrick, V.P.—Provisions; Joe Gibson, V.P.—Finance & Sec.; W. H. Coffin, V.P.—Plant operations; Jno. S. Bartley, V.P.—Engr. Constr. & Maintenance; Howard W. Dexter, Controller; Willis R. Nesbit, Treas.; Richard W. Rath, Asst. V.P.—Research and Dev.; Jno. D. Donnell, Asst. Sec.; Cash J. Cahill, Plant Mgr. 40,000 tons. 1 mill; conveyors & hopper system throughout plant.

WEBSTER CITY

Agricultural Products Corp.

713 Des Moines; tel: 1171 & 1172. C. A. Johnson, Pres.; Helen Gruenwald, Sec.; Karl H. Frantzen, Plant Mgr. & Pur. Agt.; Wendell Henderson, Prod. Mgr. Plant at Highview, Iowa.

KANSAS

AUGUSTA

Seiuble Plant Nutrients Co.

Box 388. (Main ofc: Azusa, Calif.) T. J. Johnson, Plant Mgr. 53 tons.

CHAUNTE

C—Neosho Fertilizer, Inc.

Box 259; tel: 466. Harry E. Davis, Gen. Mgr., Asst. Sec.; Shelton Prospt, Pres.; R. D. Mitchell, V.P.; James F. Cooper, Treas.; Robert Briley, Sec.; Ross Cooper, D. D. Mitchell, Wilbur Thompson, Directors; Harry E. Davis, Plant Mgr.; Russell Rodgers, Prod. Mgr. 20,000 tons. 1 hopper system; gran-

ulation equipment; automatic bagging equipment; 4 Baughman elevators; 3 Baughman conveyors.

FAIRVIEW

GH—Fairview Fertilizer Co.

Tel: 244. Leslie Wickle, Pres.; Bruce Hinton (Hamlin, Kans.), Sec.-Treas. 200 tons.

HUTCHINSON

C—Snyder Chemical Co., Inc.

North Halstead St.; tel: 2-5479. (Main ofc: Topeka, Kans.) Harold R. Krueger, Gen. Prod. Mgr.; Victor W. Keckler, Plant Supt. 25,000 tons. 1 basing mill & 1 shipping mill; belt conveyors, hopper systems; continuous ammoniators; dryers; granulators & coolers (all own design).

JUNCTION CITY

CJ—Kansas Agricultural Chemical Co., Inc.

403 E. 8th St.; Box 293; tel: 8-6157. Harold G. Safrin, Pres., Treas. & Pur. Agt.; Ernest Bauman, V.P.; C. L. Hoover, Sec.; E. J. Mathson, Plant Mgr. 25,000 tons. 1 mill (own fabrication); 20 tons per hr. granulation unit; hopper system and conveyors throughout; Payloaders.

KANSAS CITY

B—Farm Best Fertilizer & Chemical Co.

Tel: Dr. 7485. C. H. Fluty, Gen. Mgr.; Doyle Patterson, Treas.; Vernon Kassebaum, Sec.; Wm. G. Mautner, Plant Mgr.; M. W. Buzzan, Prod. Mgr. 35,000 tons.

LAWRENCE

Cooperative Farm Chemicals Assn.

P. O. Box 80. H. A. Cowden, Pres.; R. R. Zurbuchen, Gen. Mgr.; J. M. Wadsworth, Gen. Supt.; C. C. Chaffee, Asst. Supt.; Robert Pierce, Pur. Agt. 13,200 tons liquid anhydrous ammonia; 83,000 tons solid ammonia nitrate; 13,200 tons nitrogen solutions (40% N).

MARYSVILLE

CG—Blue Valley Fertilizer Co., Inc.

Box 188; tel: 795-796-797. W. P. Glasper, Pres. & Pur. Agt.; Ralph Huffman, Sec.-Treas.; Raphael Stallbaumer, Prod. Mgr. 20,000 tons. 2 mills, 45 tons; Blue Valley granulator; 3 belt conveyors.

PITTSBURG

C—Spencer Chemical Co.

P. O. Box 604. (Main ofc: Kansas City, Mo.) R. F. Brown, Gen. Wks. Mgr.; V. F. Hobart, Jayhawk Wks. Mgr.; L. D. Jones, Dir. of Pur.; G. S. Frere, Asst. Dir. of Pur.; W. R. McCluskey, Prod. Supt.; J. C. Denton, Gen. Mgr., Eng. & Constr.

TOPEKA

C—The Snyder Chemical Co., Inc.

Ofc: Room 202 Garlinghouse Bldg.; tel: 5-2353. Plant at Norris and

North Clay. Jack B. Snyder, Pres. & Treas.; Leon F. Baker, Jr., V.P. & Gen. Mgr.; Ruth C. Dixon, Sec.; Harold R. Krueger, Gen. Prod. Mgr.; Thomas R. Martin, Plant Supt. 25,000 tons. 1 basing mill & 1 shipping mill; belt conveyors, hopper systems; continuous ammoniators; dryers; granulators & coolers (all own design). Plant also at Hutchinson, Kans.

WICHITA

C—w.chita Fertilizers, Inc.

P. O. Box 2337; tel: Amherst 7-1206. Bernard Thompson, Pres.; Vernon Kassebaum, Sec.; Harold Wilson, Gen. Mgr.; Herbert Nuss, Office Mgr.; Harry A. Edmonds, Plant Mgr.; Cecil H. Fluty, Pur. Agt. 25,000 tons.

KENTUCKY

CYNTHIANA

C—Blue Grass Plant Foods, Inc.

Osmer S. Deming, Pres.; Gene Van Deren, V.P. & Treas.; A. M. Van Deren, Sec.; W. C. Curry, Jr., Plant Mgr. 25,000 tons. (Plant also at Danville, Ky.)

DANVILLE

CF—Blue Grass Plant Food, Inc.

(Main ofc: Cynthiana, Ky.) Zach P. Smith, Plant Mgr.; Glenwood Crowe, Prod. Mgr. 25,000 tons.

HENDERSON

C—Spencer Chemical Co.

R. D. Wallace, Wks. Mgr.; W. M. Yeandle, Prod. Supt.; R. J. Tiller, Wks. Engr.; M. E. Dubber, Pur. Agt.

CF—Tri-State Chemical Co.

5th St.; P. O. Box 123; tel: 2996. Jno. W. Manning, Pres. & Pur. Agt.; Elmer D. Young, V.P. & Treas.; R. E. Butler, Sec.; Hoke Smith, Plant Mgr. 20,000 tons.

HOPKINSVILLE

C—Virginia-Carolina Chemical Corp.

Tel: TU 6-1291. (Main ofc: Richmond, Va.) D. S. King, Div. Sales Mgr.; Al Rutland, Supt.

LEXINGTON

CF—Burley-Belt Plant Food Works

R.F.D. 4; tel: 4-4888. A. N. Peck (Pur. Agt.) & R. F. Terhune, Ptnrs. M. E. Haney, Plant Mgr.; Ed Crowe, Prod. Mgr. 20,000 tons. 1 Stedman mill, 1½ ton; 1 140-ft., 1 100-ft. belt conveyors; 3 Payloaders; 2 10-ton hoppers feeding to St. Regis FB 160 packer by Syntron feeder.

LONDON

B—Knoxville Fertilizer Co.

Tel: 252. (Main ofc: Knoxville, Tenn.) Raymond J. Rayfield, Supt.; Barney A. Tucker, Mgr. 30,000 tons.

LOUISVILLE

C—Cooperative Fertilizer Service of Richmond, Inc.

P. O. Box 65, Camp Taylor Sta.; tel: Atwood 6537. (Main ofc: Richmond, Va.) R. A. Allgood, Plant Mgr. 40,000 tons mixed fertilizer. 1 batching mill, 350 tons; 2 shipping mills, 175 tons each; Steadman hopper system used with Columbus belt conveyors thru entire plant.

B—Federal Chemical Co.

General Office, 646 Starks Bldg., (Zone 2); tel: Jackson 8331. John V. Collis, Pres.; J. D. Stewart, Jr., Exec. V.P.; George W. Shields, V.P. & Comptroller; W. Q. Harned, Treas.; John R. Sargent, Gen. Sales Mgr.; J. Walter Harding, Traffic & Pur. Mgr. Plant & sales ofc: 1401 Hancock, (Zone 8). Joe McGigue, Plant Mgr.; Theo. M. Dues, Div. Sales Mgr. Mixing and ammoniating plant.

Plants also operated at: Danville, Ill.; Butler, Ind.; Columbus, Ohio; Humboldt & Nashville, Tenn.

C—North American Fertilizer Co.

Preston & Bergman Sts.; tel: Magnolia 3180. Walter Crady, Pres.; E. F. Crady, R. W. Conlee, V.P.; E. H. Schueler, Sec.-Treas.; Tom C. Bowser, Plant Mgr. 75,000 tons.

B—North American Phosphate Co.

Tel: Magnolia 0872. T. W. Crady, Pres. & Gen. Mgr.; Arthur Beard, V.P.; A. C. Alt, Sec.-Treas.; F. O. Faith, Plant Supt. Mfg. superphosphate only. 50,000 tons.

C—Price Chemical Co.

Miller's Lane; tel: Arlington 5736. John A. Miller, Pres.; W. M. Newman, Sec.-Treas.; Ralph E. Smith, Plant Mgr. 40,000 tons. 1 bagging mill, 40 tons per hr.; St. Regis valve packer; automatic basing system; 6 hoppers electrically controlled; system of belt conveyors.

Virginia-Carolina Chemical Corp.—

Black Leaf Products Div.

Tel: Magnolia 1138. (Main ofc: Richmond, Va.)

MAYSVILLE

CF—Ohio Valley Fertilizer Corp.

P. O. Box 799; tel: 128. Douglas McLoney, Pres.; Herbert Moore, V.P.; G. R. Nooe, Treas. & Gen. Mgr.; Joseph Marsh, Plant Mgr.; Charles Tomlin, Mgr. 20,000 tons.

MURRAY

CFI—Hutson Chemical Co.

Rail Road Ave.; tel: 86. Dan C. Hutson & N. P. Hutson. 5,000 tons. 1 mill, 10 tons per hr.; 2 belt conveyors for bags & 2 for bulk materials.

OWENSBORO

CFJ—Bartlett & O'Bryan Fertilizer Co.

108 River Road; tel: 4-1983. T. J.

Bartlett & Wm. M. O'Bryan, Owners; Chas. Majors, Plant Mgr.; Martin Lipmore, Prod. Mgr.; Russell Rowland, Mgr. Pesticide Div. 15,000 tons.

RUSSELLVILLE

BF—Commonwealth Fertilizer Co., Inc.

Morgantown Rd.; tel: 722. J. A. Hicks, Pres.; Nat. H. Love, V.P., Pur. Agt. & Treas.; Leroy Burckett, Supt.; J. R. Sansom, Jr., Prod. Mgr. 25,000 tons. 1 mill, 30 tons per hr.; overhead shuttles.

SOMERSET

C—International Minerals & Chemical Corp.

(Main ofc: Chicago, Ill.) H. C. Godsey, Supt.

WINCHESTER

B—Cooperative Fertilizer Service of Richmond, Inc.

P. O. Box 103; tel: 121. (Main ofc: Richmond, Va.) Gene W. Cecil, Supt. 20,000 tons mixed fert.; 20,000 tons superphosphates.

CFG—Kentucky Fertilizer Works

J. B. McConaughy, Owner & Plant Mgr.; Frank E. Ecton, Asst. Plant Mgr.; Wm. H. Vaughn, Sales Mgr.; B. M. Dickerson, Prod. Mgr.; Ben Lipscomb, Supt. 22,000 tons.

LOUISIANA

ARCADIA

CFJ—Arcadia Cotton Oil Co.

Tel: 2041. Partnership: R. L. Taylor & G. C. Taylor. 15,000 tons.

BATON ROUGE

A—Consolidated Chemical Industries, Inc.

(Main ofc: Houston, Tex.) W. J. Daspit, Plant Mgr. Sulphuric acid, bone meal fertilizers.

BEGI—Louisiana Agricultural Supply Co., Inc.

Box 843. W. F. Williamson, Sr., Pres. & Pur. Agt.; E. L. Bruner, V.P.; W. F. Williamson, Jr., Treas. & Mgr. Pesticide Div.; W. S. Slaughter, Sec.; G. M. Slaughter, Plant Mgr.

BUNKIE

BFG—Guaranty Seed Co.

P. O. Box 96; tel: 2661. Roy J. Fontane, Pres.; Charles Fontane, V.P.; R. K. Ogden, Sec.-Treas.; J. C. Armand, Plant Mgr. 10,000 tons.—**Bunkie Phosphate Co.** (Same officials) 6,000 tons superphosphate.

EUNICE

BJ—Kelly, Weber & Co., Inc.

Box 111. (Main ofc: Lake Charles, La.) W. Gedge Gayle, Gen. Mgr. Fert. Dept.; J. D. Robinson, Plant Supt.; C. T. Odum, Plant Ofc. Mgr.

35,000 tons; 20,000 tons superphosphate.

CFGH—"Pronto" Liquid Fertilizer Corp.

433 N. 1st. St.; P. O. Box 288; tel: 2291. I. Edward Uzzo, Pres. & Mgr.; Phillip Uzzo, V.P. & Treas.; Francis S. Muffoletto, Sec. Liq. fert.

FRANKLINTON

BDFGHJ—Green & Reedy Fertilizer Plant

Frank Reedy, Ptnr., Prod. Mgr., Pur. Agt. & Mgr. Pesticide Div.; Chester Green, Ptnr.; Herman Thomas, Plant Mgr. 15,000 tons. 1 mill, 5 tons per hr.; 60 ton 6 compartment hopper; 24-in. belt conveyors throughout; 3 Payloaders; continuous den.

GRETNA

C—Davison Chemical Co.—Div. W. R. Grace & Co.

P. O. Box 107; tel: Algiers 3500-1. (Main ofc: Baltimore, Md.) E. M. Harold, Mgr.

HARVEY

A—Swift & Co.—Plant Food Div.

P. O. Box 158, New Orleans, La. (Main ofc: Chicago, Ill.) A. Cook, Mgr.

LAKE CHARLES

B—Kelly, Weber & Co., Inc.

P. O. Box 870; tel: 7-9494. Main ofc: Arthur L. Gayle, Pres. & Gen. Mgr.; Voris King, V.P.; Jean M. King, Treas.; F. J. Vincent, Sec. & Asst. Treas.; Alvin O. King, Chmn. of Board; W. Gedge Gayle, Gen. Mgr. Fert. Dept. & Pur. Agt.; Jack D. Robinson, Supt. Fert. Plant; Charles T. Odum, Fert. Plant Ofc. Mgr. 35,000 tons, 20,000 tons superphosphate. Plant at Eunice, La.

C—Lake Charles Feed Co., Inc.

Box 419. A. L. Gayle, Pres.; A. O. King, V.P.; F. J. Vincent, Sec.-Treas.; S. B. Parry, Mgr.; Roy Emmons, Supt. 10,000 tons.

Olin Mathieson Chemical Corp.—Industrial Chemicals Div.

Tel: 8373. (Main ofc: Baltimore, Md.) Ammonia & nitrate of soda plant.

MINDEN

CJ—Minden Cotton Oil & Ice Co. Ltd.

Box 928. J. B. Snell, Pres. & Mgr.; R. L. Taylor, V.P.; E. L. Lyon, Sec.; R. D. Miller, Plant Supt. 15,000 tons. 1 mill, 1 ton.

NEW ORLEANS

CD—The Southern Cotton Oil Co.

Main ofc. 210 Baronne St., tel: MA 4161. A. Q. Petersen, Pres.; W. F. Guinne, M. W. Lyons, L. C. Haskell, (Savannah, Ga.), E. A. Geoghegan, V.P.'s; W. F. Hoerner, Sec.; C. M. Carriere, Treas.

OPELOUSAS

CD—Farm Service, Inc.

P. O. Box 271. J. W. Anthony, Pres.; John Wood Anthony & W. H. Anthony, V.P.'s; E. B. Anthony, Sec.-Treas.; Allen Richard, Plant Mgr. 25,000 tons.

RUSTON

C—Ruston Oil Mills & Fertilizer Co.

Box 384. L. W. Ott, Pres.; Everett R. Scott, V.P.; Roy Cook, Sec., Pur. Agt. & Mgr.; J. W. Thompson, Supt. 5,000 tons. 1 mill; belt conveyors; Payloaders.

SHREVEPORT

C—Dixie Fertilizer Co., Inc.

P. O. Box 1111. S. M. Hackett, Pres. & Pur. Agt.; Mrs. Georgie H. Chandler, V.P. & Treas.; Mrs. Louise C. Foreman, Sec.; D. W. Wallace, Plant Mgr. 40,000 tons. 3 mills.

B—Shreveport Fertilizer Works

P. O. Box 1. C. D. Shallenberger, Pres.; Staunton B. Sample, V.P.; Ira E. Moss, Sec.-Treas.; Herman Cain, Plant Mgr. 75,000 tons. 4 mixing machines (1,000 tons, 10 hrs.); 1 hopper; 6 belt conveyors.

B—Swift & Co.—Plant Food Div.

Box 3567. (Main ofc: Chicago, Ill.) C. D. Smith, Mgr.

A—Virginia-Carolina Chemical Corp.

Tel: 3-6274; Factory tel: 4-1396. (Main ofc: Richmond, Va.)

SHREWSBURY

A—Armour Fertilizer Works

P. O. Box 10218, Jefferson Sta., (New Orleans 21, La.) (Main ofc: Atlanta, Ga.) C. S. Livingston, Div. Mgr.

MAINE

BANGOR

C—The Summers Fertilizer Co., Inc.

194 Exchange St.; tel: 7136. (Main ofc: Baltimore, Md.) J. C. Totman, Mgr. 5,000 tons.

BOWDOINHAM

CDGH—Sagadahoc Fertilizer Co., Inc.

J. E. Totman, Pres.; Wm. A. Fessler, V.P.; A. M. Fides, Treas.; F. P. Preti, Sec.; George Ockley, Plant Mgr.; Byron Durgin, Pur. Agt. 15,000 tons. 1 mixing mill; 1 bagging mill, 25 tons per hr.; belt conveyor.

CALAIS

C—The Summers Fertilizer Co., Inc.

(Main ofc: Baltimore, Md.) W. E. Dresser, Mgr.; J. E. Greenough, Asst. Mgr. 10,000 tons.

CARIBOU

CJ—Aroostook Federation of Farmers

22 Sweeden St. P. J. Sullivan, Gen. Mgr.; Byron E. Hand, Mgr. Pesticide Div. 25,000 tons. Plants also at: Fort Kent & Sherman, Me.

C—The Summers Fertilizer Co., Inc.
Tel: 3541. (Main ofc: Baltimore, Md.) H. G. Boutillier, Mgr. 5,000 tons.

EASTPORT

The Summers Fertilizer Co., Inc.
(Main ofc: Baltimore, Md.)

FORT FAIRFIELD

Higgins Formula Co.
A. W. Higgins, Pres. 2-3,000 tons.

FORT KENT

CIJ—Aroostook Federation of Farmers
(Main ofc: Caribou, Me.) 20,000 tons.

C—Economy Fertilizer Co., Inc.
Market St.; tel: 326-22. Bryon A. Young, Pres. & Plant Mgr.; Norman A. Guy, Treas. 1,000 tons.

HOULTON

C—International Minerals & Chemical Corp.
(Main ofc: Chicago, Ill.) M. L. Bruce, Supt.

C—The Summers Fertilizer Co., Inc.
Tel: 3481. (Main ofc: Baltimore, Md.) Victor S. Totman, Mgr.; Tom Scott, Supt. 5,000 tons.

MARS HILL

C—The Summers Fertilizer Co., Inc.
Tel: 3711. (Main ofc: Baltimore, Md.) M. J. Dickinson, Mgr. 5,000 tons.

PORTLAND

CD—Portland Rendering Co.
P. O. Box 1359; tel: 3-3834. (Main ofc: Consolidated Rendering Co., Boston, Mass.) R. I. Scherer, Plant Mgr.; C. P. Berry, Supt. 8,000 tons. 1 1-ton Sturdevant mill; hoppers; bucket elevators.

PRESQUE ISLE

C—Aroostook Hi-Test Fertilizer Co.
422 Main St.; tel: 5261. T. R. York, Pres.; A. J. Beck, V.P.; D. F. Cliff, Treas. & Gen. Mgr.; John J. Edmunds, Sec.; W. R. Edgcomb, Prod. Mgr.; G. N. Currie, Plant Mgr. 20,000 tons.

C—Canada Packers, Ltd.
Tel: 5791. K. H. Larsen, Mgr.; W. D. Loggre, Plant Mgr. 15,000 tons.

Shur-Gain, Inc.
J. K. Leggatt, Maritime Mgr. 8,000 tons.

SANDY POINT (STOCKTON)

C—The Summers Fertilizer Co., Inc.
Tel: Searsport 141. (Main ofc: Baltimore, Md.) F. L. Litty, V.P. & Gen. Mgr. 50,000 tons.

SEARSPORT

C—The American Agricultural

Chemical Co.

(Main ofc: New York, N. Y.) T. A. Bayley, Supt.

C—Armour Fertilizer Works

(Main ofc: Atlanta, Ga.) H. H. Kirk, Div. Mgr. (Presque Isle, Me.)

A—Northern Chemical Industries, Inc.

Tel: 141. (Main ofc: Baltimore, Md.) F. L. Litty, V.P. & Gen. Mgr.; J. G. Moynihan, Asst. Mgr.; C. D. Long, Pur. Agt. 80,000 tons.

SHERMAN

CIJ—Aroostook Federation of Farmers
(Main ofc: Caribou, Me.) 5,000 tons.

MARYLAND

BALTIMORE

AI—The American Agricultural Chemical Co.

2272 So. Clinton St. (Main ofc: New York, N. Y.) R. L. Waring, Jr., Mgr.; R. M. Richey, Supt.

A—The Baugh Chemical Co.

Ofc: 25 S. Calvert St.; Plant: Foot of Clinton St. General Offices. B. H. Brewster, Chmn. of Board; P. J. Prosser, Pres.; H. Williams, P. W. Sinwell, L. A. Krebs, V. J. Leahy, Dorothy Q. Harper, V.P.'s; Benjamin H. Brewster, Jr., V.P. & Treas.; R. S. Hoffman, V.P., Sec. & Comptroller; A. T. Hoch, Supt.

C—The Baugh & Sons Co.

General Office 25 S. Calvert St. B. H. Brewster, Chmn. of Board; P. J. Prosser, Pres.; H. Williams, P. W. Sinwell, L. A. Krebs, V. J. Leahy, Dorothy Q. Harper, V.P.'s; Benjamin H. Brewster, V. P. & Treas.; R. S. Hoffman, V.P., Sec. & Comptroller; A. T. Hoch, Supt.

A—Davison Chemical Co.—Div. W. R. Grace & Co.

101 N. Charles St.; tel: Saratoga 7-3900. General Offices. C. F. Hockley, Chmn. Advisory Board; M. G. Geiger, Pres.; W. E. McGuirk, Jr., Exec. V.P.; W. N. Watmough, Jr., D. N. Hausman, M. C. Roop, C. E. Waring, W. B. McCloskey, P. W. Bachman, V.P.'s; J. S. Marks, Treas.; F. J. Griffin, Controller; C. C. Dorsey, Pur. Agt. Plants: Curtis Bay, Md.; Alliance, Cincinnati & Columbus, Ohio; Nashville, Tenn.; Lansing, Mich.; Greta & Lake Charles, La.; Perry, Iowa; New Albany, Ind.; Bartow, Fla.

B—Fertilizer Manufacturing Cooperative, Inc.

1800 S. Clinton St.; tel: Orleans 5-7120. J. C. Crissey, Pres.; A. P. Sale, Jr., V.P.; A. M. Eno, Sec. Treas.; Albert Spillman, Mgr.; H. L. Fader, Supt. 75,000 tons. 4 mills;

mixing mill 40 tons; 3 shipping mills, 30 tons each; cranes; belt conveyors; overhead cars and overhead hoppers for mixing and shipping.

C—Griffith & Boyd Co.

210 E. Redwood St. James E. Totman, Pres.; George A. Biddison, V.P.; N. K. Totman, Treas.; Wm. A. Fessler, Sec.; Wm. B. Bird, Plant Mgr. 50,000 tons. 3 mills, 100 tons per hr.; hopper system; belt conveyors; Payloaders, shovels, etc.

CGI—McCormick & Co., Inc.

414 Light St.; tel: Lexington 9-6460. C. P. McCormick, Pres.; J. N. Curlett & B. E. Furr, V.P.'s; G. D. Reed, Plant Mgr.; N. C. Settle, Prod. Mgr.; L. W. Jones, Pur. Agt.; A. E. Badertscher, Chief Entomologist. 100 tons mixed water-soluble plant food.

AEG—Olin Mathieson Chemical Corp.—Agricultural Chemicals Div.

(Main ofc: Little Rock, Ark.) Court Square Bldg.; tel: Plaza 2-8300. A. H. Carpenter, Eastern Div. Fert. Sales Mgr.; J. S. Whittington, Mgr. Ag. Nitrogen Dept.; Dr. A. M. Smith, Dir. Technical Service.

CGHI—Miller Chemical & Fertilizer Corp.

2226 N. Howard St.; tel: Belmont 5-5395. W. Newton Long, Pres.; Thos. L. Smith, O. Neuman, Jr., A. G. Fischer, V.P.'s; L. W. Cameron, Treas.; J. F. Miller, Sec.; A. G. Fischer, Plant Mgr.; L. S. Shaver, Pur. Agt.; Roger W. Cohill, Mgr. Pesticide Div. 15,000 tons. 6 mills. Plants also at Gaithersburg, & Whiteford, Md.; Bridgeton, N. J.; Hanover, Pa.

A—Northern Chemical Industries, Inc.

Main ofc: Totman Bldg., 210 E. Redwood St.; tel: Saratoga 7-3860. J. E. Totman, Pres.; R. E. Fraser, F. L. Litty, V.P.'s; Wm. A. Fessler, Sec.; N. K. Totman, Treas.; C. L. Carpenter, Tech. Dir. Plant at Searsport, Maine.

CD—Plantabbs Corp.

1105 Maryland Ave. V. McC. Fulton, Pres.; D. H. Fulton, Jr., V.P. & Plant Mgr.; V. C. Tietz, Treas.; E. F. Casey, Sec. Mgr. mixed fert. in tablet form.

A—F. S. Royster Guano Co.

(Main ofc: Norfolk, Va.) M. F. Wright, Jr., Mgr., Baltimore Sales Ofc.; E. N. Lacy, Supt. 100,000 tons.

Shea Chemical Corp.

General offices: 1201 St. Paul St.; tel: Mulberry 5-3159. Vincent H. Shea, Pres. & Treas.; John H. Lux, G. H. Gilbertson, E. P. Madsen, V.P.'s; J. R. Durrell, Pur. Agt. Plants at: Jeffersonville, Ind.; Adams, Mass., & Columbia, Tenn.

C—The Summers Fertilizer Co., Inc.
Main ofc: Totman Bldg., 210 E. Redwood St.; tel: Saratoga 7-3860. J. E. Totman, Pres.; Wm. A. Fessler, R. E. Fraser, F. L. Litty, C. L. Carpenter, V.P.'s; N. K. Totman, Treas.; D. C. Zaiser, Sec.; J. C. Totman, Asst. Treas.; H. J. Miller, Asst. Sec.; C. M. Wallace, Export Mgr.; Wm. B. Bird, Baltimore Plant Mgr. Plants also at: Sandy Point, Houlton, Mars Hill, Bangor, Calais, Caribou & Eastport, Maine; McKeesport, Pa.; Sioux Falls, So. Dakota; Grand Forks, No. Dakota; and St. Stephen, N. B., Canada. 250,000 tons.

C—Virginia-Carolina Chemical Corp.
Tel: 9-1950; Factory tel: Curtis 7-0092. (Main ofc: Richmond, Va.)

CAMBRIDGE

CDEFGH—Dorchester Fertilizer Co.
Box 23. Enos Valliant, Chmn. of Board; George P. Lippincott, Pres.; C. E. Edmondson, V.P. & Sec.; J. Otis McAllister, Treas.; Seward Mende, Plant Supt. 20,000 tons.

CENTREVILLE

CF—E. S. valliant & Son, Inc.
E. Stephens Valliant, Pres.; E. S. Valliant, Jr. V.P.; J. Carl Starkey, Sec.; Wm. Hodgson, Plant Mgr. 10,000 tons.

CHESTERTOWN

CF—Peerless Fertilizer Co., Inc.
Tel: 670. Phillip G. Hall, Mgr. 8,000 tons.

CHEWSVILLE

C—Chewsville Co-Operative Assn., Inc.
Tel: 3121. Jno. A. Martin, Pres.; R. L. Hartle, V.P.; G. Wm. Gardenhour, Treas.; Clarence C. Frey, Plant Mgr.; Ernest W. Sensenbaugh, Pur. Agt. 2,000 tons.

CURTIS BAY

C—Armour Fertilizer Works
Drawer No. 304, Curtis Bay, Baltimore 26, Md. (Main ofc: Atlanta, Ga.) L. J. Mitchell, Div. Mgr.

C—Cooperative Fertilizer Service of Baltimore, Inc.

Box 303; tel: Prospect 0843. H. A. Hanemann, Pres.; W. T. Steele, Jr., V.P.; K. R. Eckles, Treas.; Jas. P. Ayers, Jr., Sec.; O. P. Bernhardt, Mgr.; A. E. Beall, Supt. 110,000 tons. 3 shipping mills; 1 batching mill.

A—Davison Chemical Co.—Div. W. R. Grace & Co.

Tel: Curtis 7-1900. (Main ofc: Baltimore, Md.) A. R. Worrall, Wks. Mgr.

A—Olin Mathieson Chemical Corp.—Industrial Chemicals Div.
Tel: Curtis 7-5950. (Main ofc: Baltimore, Md.) H. A. Koehler, Plant Mgr.

CFJ—Pennsylvania Farm Bureau Cooperative Assn.

(Main ofc: Harrisburg, Pa.) O. P. Bernhardt, Jr., Plant Mgr.; A. E. Beall, Prod. Mgr. 110,000 tons.

C—Swift & Co.—Plant Food Div.

Mail address: Curtis Bay, Baltimore 26, Md. (Main ofc: Chicago, Ill.) A. W. Langdon, Mgr.

DENTON

CFG—Soil Service

Box 362. Walter B. Palmer, Sr., Pres. & Pur. Agt.; Walter B. Palmer, Jr., Plant Mgr.; R. Dale Palmer, Prod. Mgr. 2,500 tons. 2 belt conveyors; 2 bucket legs; 1 receiving hopper & auger.

FREDERICK

CF—The Ramsburg Fertilizer Co.
S. Carroll St.; tel: MO 3-9311. J. Richard Ramsburg, Pres., Treas., Prod. Mgr. & Pur. Agt.; Mrs. L. V. Ramsburg, V.P.; Mrs. M. E. Ramsburg, Sec.; Roger Lenbart, Plant Mgr. 6-8,000 tons. 1 mill, 1 ton; 2 belt conveyors.

GAITHERSBURG

C—Miller Chemical & Fertilizer Corp.

(Main ofc: Baltimore, Md.) 15,000 tons. Mills; belt conveyors.

HAGERSTOWN

BDFGIJ—Central Chemical Corp.
Tel: 4700. Franklin M. Thomas, Pres.; M. C. Morton, V.P.; F. S. Schwartz, Treas.; G. H. Thomas, Sec.; Charlie Fogg, Plant Mgr.; D. Fred Neikirk, Pur. Agt.; Sam Marshall, Mgr. Pesticide Div. 50,000 tons. 2 mills; hopper system. Plants also at: Butler, Everett, Gettysburg & Milton, Pa.; Harrisburg & Crimora, Va.

HAMPSTEAD

CD—Hampstead Fertilizer Co.

Tel: 4061. J. M. Simmons, Pres.; Robt. W. Royston, V.P.; H. L. Twigg, Treas.; M. M. Rohrbaugh, Sec.; H. L. Twigg, Plant Mgr. & Pur. Agt. 2,000 tons. 1 mill, ½ ton, belt conveyors (hand made in plant).

KEYMAR

CF—The Frederick Mehring Fertilizer Works, Inc.

Tel: Union Bridge 4774. H. O. Harner, Mgr. 10,000 tons.

POCOMOKE CITY

CFGHJ—W. B. Tilghman Co.

Tel: 222. (Main ofc: Salisbury, Md.) R. A. Ross, V.P.; Harold C. Mason, Plant Mgr. 20,000 tons.

SALISBURY

CF—The Farmer & Planters Co.

202 Mill St. W. Lee Allen, Pres.; J. Wm. Shockley, V.P.; Edgar H. McGrath, Sec.-Treas.; John Gordon Stewart, Mgr. 10,000 tons.

CFGHJ—Wm. B. Tilghman Co., Inc.
Wm. B. Tilghman, Jr., Pres.; Mrs. Louise T. Lambert & R. A. Ross (Pocomoke City), V.P.'s; John L. Morris, Sec.-Treas.; Harvey Campbell, Plant Mgr. 20,000 tons. (Also plant at Pocomoke City, Md.)

SNOWHILL

CEFGHJ—Worcester Fertilizer Co.

Ralph E. Shockley, Pres.; R. Newell Stagg, V.P.; Ben T. Truitt, Sec.-Treas. & Pur. Agt.; M. L. Truitt, Asst. Sec.-Treas.; Daniel S. Moore, Asst. Sec.-Treas.; Levi J. Truitt, Plant Mgr.; Wm. B. Blank, Mgr. Pesticide Div. 20,000 tons. 1 mill; hopper system; chain conveyors; Valve-Pak bagging set up; Payloaders; corn dryers; grain elevators; crane.

WESTMINSTER

CF—Farmers Fertilizer & Feed Co.

1 W. Main St. Herbert C. Bixler, Pres.; Jno. E. B. Nelson, V.P.; Jno. P. W. Beard, Treas. & Pur. Agt.; Paul R. Niswander, Sec.; Geo. Devilbiss, Plant Mgr. 10,000 tons. 1 mill, 10 tons per hr.; 2 conveyors.

BF—Westminster Fertilizer Co.

Tel: 180. John E. Stevenson, Pres.; Geo. M. Tracy, V.P.; V. C. Hull, Sec.-Treas.; E. L. Crowl, Plant Mgr. 2,500 tons. 1 mill.

WHITEFORD

CGHI—Miller Chemical & Fertilizer Corp.

Tel: Cardiff 16. (Main ofc: Baltimore, Md.) A. G. Fischer, Prod. Mgr. 15,000 tons.

MASSACHUSETTS

ADAMS

A—Shea Chemical Corp.

P. O. Box 268; tel: 1292. (Main ofc: Baltimore, Md.) Harold H. Fletcher, Plant Mgr.; Robert McNamara, Prod. Mgr. 30,000 tons phosphoric acid.

ATTLEBORO

CD—N. Roy & Son

Rear 180 Newport Ave. Joshua Lecht, Owner.

BOSTON

Consolidated Rendering Co.

General offices: 178 Atlantic Ave. Leon E. Smith, Pres.; John H. Downing, Treas.; Walter E. Meeklen, V.P. & Mgr. Fert. Dept. Plants at New Haven, Conn.; Portland, Me.; Lowell & Springfield, Mass.; Syracuse, N. Y.; Burlington, Vt.

CAMBRIDGE

DJ—John Reardon & Sons

51 Waverly St.

LOWELL

B—Lowell Rendering Co.
(Main ofc: Consolidated Rendering Co., Boston, Mass.) Henry K. Norwood, Plant Mgr. 40,000 tons. 5 shipping mills; 1 mixing unit; 1 Sturtevant den; 9 Payloaders; 2 forklift trucks; 3 tractors; 1 Sturtevant mixer.

NORTH CAMBRIDGE

CDGI—Eastern States Farmers Exchange, Inc.
(Main ofc: W. Springfield, Mass.) L. F. Cizek, Plant Mgr. 50,000 tons. 1 mixing & 3 shipping units; belt conveyors for bulk and bagged goods; electric & gas powered trucks & tractors; power shovels.

NORTH WEYMOUTH

A—The American Agricultural Chemical Co.
285 River St. (Main ofc: New York, N. Y.) Robert Mossman, Mgr.; F. C. Manuel, Supt.

SOUTH DEERFIELD

C—Old Deerfield Fertilizer Co., Inc.
Tel: Normandy 5-2115. Clarence F. Clark, Pres.; E. S. Russell, Treas.

SPRINGFIELD

C—Springfield Rendering Co.
Box 379; tel: 4-1174. (Main ofc: Consolidated Rendering Co., Boston, Mass.) W. M. French, Mgr. 6,000 tons.

WEST SPRINGFIELD

Eastern States Farmers' Exchange, Inc.
General offices: 26 Central St.; tel: 3-3131. Julian B. Thayer, Pres.; M. E. Pike, Treas.; Quentin Reynolds, Gen. Mgr.; J. R. Myers, Fert. Prod. Mgr.; W. H. Prigmore, Mgr. Pesticide Div. Plants located at: Wilmington, Del.; N. Cambridge, Mass.; Kittanning & York, Pa. Fertilizer headquarters at York, Pa.

WOBRUN

The Hy-Trous Corp.
Donald B. MacWhinnie, Pres.; Wm. A. Morday, Jr., Treas.; Harry H. Hincman, Plant Mgr. 300 tons Liq. Fert.

B—International Minerals & Chemical Corp.
(Main ofc: Chicago, Ill.) F. R. Witham, Dist. Sales Mgr.; E. J. Comer, Supt.

MICHIGAN

DETROIT

A—The American Agricultural Chemical Co.
P. O. Drawer 2458. (Main ofc: New York, N. Y.) L. P. Downham, Mgr.; E. W. Sale, Actg. Supt.

HAMILTON

CEF—Hamilton Farm Bureau Cooperative, Inc.
Joseph G. Schipper, Pres.; James Koopman, V.P.; Andrew G. Lohman, Sec.-Treas. & Mgr. 2,000 tons. 1 mill, ½ ton mixer; belt conveyor to truck for bulk fertilizer delivery.

HOLLAND

C—Smith Agricultural Chemical Co.
Tel: 4222. (Main ofc: Columbus, Ohio.) Harry R. Smith, Div. Mgr.; Ernest H. Post, Asst. Mgr.; Vernon Van Oort, Supt. 25,000 tons. 1 mill, 25 tons per hr. (combination mixing & bagging); Jeffrey feeders & Columbus conveyors.

CG—Stanton Co.

Box 116. F. W. Stanton, Pres. & Treas.; A. G. Stanton, Sec. Liq. fert. for house plants only. 1 mill, 2,500 bottles daily; mixing, filling, labeling machines.

KALAMAZOO

CDFJ—Farm Bureau Service, Inc.—Plant Food Div.
P. O. Box 148; tel: 2-9841. (Main ofc: Lansing, Mich.) Phil Turner, Plant Supt. 40,000 tons. 3 Rapid Island conveyors; 9 Stevens-Adamson conveyors; 9 Stevens-Adamson hoppers.

KENT CITY

G—General Liquid Fertilizer Co.

LANSING

C—The Diamond Fertilizer Co.

B—Davison Chemical Co.—Div.

W. R. Grace & Co.
N. High St.; tel: 2-0826. (Main ofc: Baltimore, Md.) B. C. Manker, Dist. Mgr.; V.G. Vashbinder, Plant Mgr.; George Mack, Supt.

Farm Bureau Service, Inc.

221 N. Cedar. Alfred Roberts, (Pigeon, Mich.) Pres.; Jack Yeager, Gen. Mgr.; Adolph F. Ecklund, Mgr. Plant Food Mfg. Div.; Wayne LeCureux, Mgr. Pesticide Div.; John Sexton, Dir. Plant Food Div. Plants located at: Kalamazoo & Saginaw, Mich.

SAGINAW

B—The American Agricultural Chemical Co.

P. O. Box 1228. (Main ofc: New York, N. Y.) W. L. Beales, Mgr.; R. E. Lehmkuhl, Supt.

BEFIJ—Farm Bureau Service, Inc.
P. O. Box 867. (Main ofc: Lansing, Mich.) John Sexton, Dir. Plant Food Div.; Adolph F. Ecklund, Prod. Mgr. 55,000 tons.

BC—The Smith Agricultural Chemical Co.

Tel: 2-5136. (Main ofc: Columbus, Ohio) Elmer C. Barsch, V.P. & Saginaw Div. Mgr.; Virgil L. Sanford, Supt. 75,000 tons.

MINNESOTA

ALBERT LEA

C—Smith-Douglass Co., Inc.
(Main ofc: Norfolk, Va.) M. W. Mahwinney, Plant Mgr.; A. E. Gibson, Prod. Mgr.

HATFIELD

CFGH—Bob Fruen Fertilizer Co.
B. B. Fruen, (Pur. Agt.); Paul Fruen, Wm. Fruen & Mary Ann Fruen, Pltnrs.; Gerald VanderPlaat, Plant Mgr.; Ted Wollmuth, Prod. Mgr. 5,000 tons. 1 mill; 2 belt conveyors. 6 Fargo Landers hopper bins; 2 Stedman legs; 1 tooth conveyor; 1 Stedman mixer; 1 Stedman clog buster; 3 Stedman screens.

MINNEAPOLIS

CFG—Howe, Inc.
4821 Xerxes Ave., N. (Zone 12); tel: Juniper 2747-8 Roy M. Howe, Pres.; Bill M. Howe, V.P. & Treas.; Carol Comstock, Sec.; Warren Gray, Gen. Mgr. 25,000 tons. 1 hopper system; conveyor belts length of bldg. and between buildings.

CF—Land O'Lakes Creameries, Inc.
Tel: Sterling 1-4811. Chester A. Johnson, Gen. Mgr.—Feed, Seed & Fert. Div.; Philip Stocker, Mgr. Fert. Dept.; Alex Klopka, Plant Mgr.; Don Mellford, Pur. Agt. 45,000 tons.

F. H. Peavey Co.
Office only.) Plant at Fargo, N.

MOOREHEAD

CI—Minnesota Farm Bureau Service Co.
(Main ofc: St. Paul, Minn.) D. A. Williams, Gen. Mgr.; H. Gooler, Plant Mgr.; A. D. Milburn, Pur. Agt.; Wm. Armour, Mgr. Pesticide Div. 20,000 tons.

SAINT PAUL

CGIJ—Minnesota Farm Bureau Service Co.

101 E. Fairfield Ave. L. O. Jacobs, Pres.; D. A. Williams, Gen. Mgr.; J. L. Morton, Sec.-Treas.; Howard Gooler, Prod. Mgr.; A. D. Milburn, Pur. Mgr. 50,000 tons. Plant also at Moorehead, Minn.

Northwest Cooperative Mills

General office only. 635 N. Fairview Ave.; tel: Nestor 9661. E. A. Syftstad, Pres.; Milo Dahl, Sec.-Treas.; A. H. Roffers, Gen. Mgr.; G. O. McMillin, Mgr. Fert. Div. Plants at Winona, Minn. & Green Bay, Wisc.

WELCOME

CEFGH—Welcome Agricultural Chemical Co.
Tel: 200. A. J. Schuler, Pres.; E. W. Eickelberg, V.P.; W. C. Bicknase, Sec.-Treas.; Clifford Nelson, Plant Mgr. 25,000 tons.

WINONA

C—Armour Fertilizer Works

(Main ofc: Atlanta, Ga.) L. O. Peterson, Div. Mgr.

CD—Northwest Cooperative Mills, Inc.

Tel: 2884. (Main ofc: St. Paul, Minn.) Joe Curlis, Plant Mgr. 40,000 tons. 1 basing mill & 1 shipping mill, 30 tons per hr.; belt conveyors; synxtron scale hopper system.

MISSISSIPPI

AMORY

CH—North East Mississippi Fertilizer Co.

Box 156. J. L. Bryan, Owner; W. H. Bryan, Plant Mgr. 2,000 tons.

CANTON

B—Mississippi Federated Cooperatives (AAL)

(Main ofc: Jackson, Miss.) J. H. Williamson, Supt. 50,000 tons.

CLARKSDALE

BDG—Southern Agricultural Fertilizer Co.

Main ofc. Box 728. Kinchen O'Keefe, Pres. & Pur. Agt.; A. H. Gotcher & W. H. Gresham, V.P.'s; W. M. Butler, Sec.; W. R. Burchfield, Plant Mgr. 40,000 tons. Plants also at Greenville, Miss.

CORINTH

C—Mississippi Federated Cooperatives (AAL)

(Main ofc: Jackson, Miss.) Tommie Mask, Supt.; Delmar Bullard, Asst. Supt. 7,500 tons.

GREENVILLE

BJ—Kinchen O'Keefe & Co.

(Main ofc: Southern Agricultural Fertilizer Co., Clarksdale, Miss.) 50,000 tons.

C—Valley Fertilizer Co.

322 Walthal St.; tel: 3304. Robt. M. Harding, Pres.; Edmund Taylor, V.P.; Inez Garrard, Sec.-Treas.; Wm. P. Eason, Plant Mgr. 10,000 tons.

GREENWOOD

C—All States Fertilizer Co.

P. O. Box 732; tel: 73-J & 73-R. N. P. Davis, Jr., Mgr.

CGJ—Staple Cotton Cooperative Assn.

O. F. Bledsoe, Pres.; A. H. Stone, V.P.; W. M. Garrard, Gen. Mgr.; T. R. Wells, C. J. Coleman & J. L. Kethley, Asst. Gen. Mgrs.; J. B. Hinton, Sec.-Treas.; E. K. Hyman, Pur. Agt.; Geo. Cooper, Plant Mgr. 7,500 tons.

GULFPORT

A—Gulfport Fertilizer Co.

P. O. Box 986. D. P. Cranberry,

Pres.; G. E. Covington, V.P.; N. E. Gaston, Sec.-Treas., Pur. Agt. & Plant Mgr.; H. P. Robinson, Prod. Mgr. 20,000 tons.

CF—Marine Feed & Fertilizer Co.

1618 25th Ave.; tel: 4020 & 4021. R. L. Colson, Owner and Mgr.

HATTIESBURG

BFG—Meridan Fertilizer Factory

P. O. Box 991. W. F. Guinee, Pres.; M. G. Field, V.P. & Pur. Agt.; W. F. Hoerner, Sec.-Treas.; W. R. Baughn, Supt.; W. M. Hemeter, Prod. Mgr. 50,000 tons.

HAZLEHURST

CJ—Hazlehurst Oil Mill & Fertilizer Co.

(Owned and operated by Mississippi Cottonseed Products Co.) W. D. Lowe, Chmn. of Board; H. E. Covington, Pres.; J. R. Mason, Treas.; Frank M. Smith, Local Mgr.; J. L. Book, Supt. 10,000 tons.

JACKSON

CG—Delta Cotton Oil & Fertilizer Co.

Alfred Jenkins, Pres.; W. R. Barrow, James C. Bolton, V.P.'s; Lowell D. Hamilton, Sec.; R. F. Anderson, Plant Mgr. 25,000 tons. Belt conveyors; hoppers; Payloaders.

B—Jackson Fertilizer Co.

P. O. Box 118; tel: 6-3441. A. A. Green, Pres., Gen. Mgr. & Pur. Agt.—materials; Garner W. Green, V.P.; Jos. H. Morris, Sec.-Treas.; Cecil B. Morton, V.P. & Mgr.; H. Baird Green, V.P., Asst. Mgr. & Pur. Agt.—supplies; J. C. Halfacre, Asst. Sec. & Asst. Treas.; Geo. D. Purvis, Sales Mgr.; J. B. Nicholson, Plant Supt. 30,000 tons. 3 mills, 90 tons per hr.; Atlanta Utility hopper system; Payloaders.

BEJ—Mississippi Federated Cooperatives. (AAL)

General offices only. 414 North St.; tel: 5-4701. H. C. Carter (Louisville, Miss.), Pres.; F. D. Barlow, (Crystal Springs, Miss.), V.P.; Charlie McNeil, Treas. & Gen. Mgr.; Miss Ruth Cooper, Sec.; E. G. Spivey, Asst. Gen. Mgr.; J. K. Morgan, Pesticide Div. Mgr.; James Woodall, Fert. Div. Mgr. Plants located in Canton, Corinth, Laurel and Meridian, Miss. (General supervision of plants handled at main ofc.)

B—F. S. Royster Guano Co.

(Main ofc: Norfolk, Va.) H. R. Turner, Supt.; J. R. Owens, Mgr. Jackson sales ofc. 50,000 tons.

B—Virginia-Carolina Chemical Corp.

Tel: 6-4401 — 6-4402; Factory tel: 6-3226. (Main ofc: Richmond, Va.)

LAUREL

CD—Laurel Oil & Fertilizer Co.

H. E. Covington, Pres.; J. B. Perry, Jr. & W. S. Welch, V.P.'s; D. P.

Cranberry, Sec.-Treas. & Pur. Agt.; J. A. Dodd, Prod. Mgr. 12,000 tons.

C—Mississippi Federated Cooperatives (AAL)

(Main ofc: Jackson, Miss.) G. L. Jackson, Mgr. 2,500 tons.

MACON

CJ—Imperial Cotton Oil Co.

Tel: 13 & 375. E. T. George, Pres. & Mgr.; Fread Gentry, Plant Mgr.; E. T. George, Jr., Prod. Mgr.; Geo. Alford, Mgr. Pesticide Div. 6,000 tons.

MAGEE

BI—Magee Cooperative Gin (AAL)

E. T. Layton, Pres.; B. T. Flynt, V.P.; Barron A. Smith, Sec.-Treas. & Gen. Mgr.; W. R. Baughn, Prod. Mgr.; M. R. Calder, Pur. Agt.; A. K. Morean, Mgr. Pesticide Div. 30,000 tons. 1 mill, 1 ton; conveyors for material, mixed fertilizer & superphosphate; hopper system.

MAGNOLIA

C—Magnolia Cotton Oil Co.

G. E. Covington, Plant Mgr.

MARKS

BGI—Riverside Fertilizer Factory

Tel: 2221. Wm. King Self, Pres.; Hill Blaylock, Prod. Mgr.; M. S. Brown, Plant Supt.

MERIDIAN

C—Eagle Cotton Oil Co.

Box 608. E. A. Morrison, Pres.; Webb Brunson, V.P. & Prod. Mgr.; E. E. Morrison, Sec.-Treas. & Pur. Agt.; B. W. Pippin, Supt. 15,000 tons. 1 mill, 25 tons per hr.

B—Mississippi Federated Cooperatives (AAL)

Box 1350. (Main ofc: Jackson, Miss.) W. S. Nash, Mgr.; Robert Tyrone, Supt. 20,000 tons.

NEWTON

C—Newton Oil Mill

Tel: 157. (Owned and operated by Mississippi Cottonseed Products Co.) H. E. Covington, Pres.; J. B. Perry, Jr. & G. E. Covington, V.P.'s; J. R. Mason, Sec.-Treas.; W. R. Jones, Plant Mgr. 8,000 tons. 1 mill; Continental belt conveyors.

PHILADELPHIA

CFIJ—Supreme Feed & Fertilizer Co.

P. O. Box 356. Bruce Latimer, Pres.; Hugh Latimer, V.P.; John Latimer, Sec.-Treas.; Lewis Cox, Supt. 10,000 tons.

TUPELO

A—International Minerals & Chemical Corp.

(Main ofc: Chicago, Ill.) J. E. Young, Dist. Sales Mgr.; T. L. Holland, Supt.

VICKSBURG

CDGJ—Magnolia Fertilizer Co.

P. O. Box 18. C. H. Russell, (Jackson, Miss.), Pres.; B. L. Davis, V.P.; H. T. Bankston, Mgr. & Pur. Agt.; Tom Byrd, Prod. Mgr.

C—Spencer Chemical Co.

W. A. Johnston, Wks. Mgr.; N. S. Whitaker, Prod. Supt.; J. E. Crafton, Pur. Agt.

WEST POINT

C—Crown Chemical & Mfg. Co.

Tel: 501. E. F. Cater, Pres.; Mrs. E. F. Cater, Sec.-Treas.; H. N. Coggins, Plant Mgr. 10,000 tons. 1 mill.

YAZOO CITY

Mississippi Chemical Corp.

Tel: 1200. C. S. Whittington (Greenwood, Miss.), Pres.; Owen Cooper, Exec. V.P.; C. L. McNeil, (Jackson, Miss.), 1st V.P.; Leroy P. Percy (Greenville, Miss.), 2nd V.P.; Mrs. Esma A. Hawks, Sec.-Treas.; Jno. C. Satterfield (Jackson, Miss.), Gen. Counsel; W. B. Dunwoody, Gen. Operations Mgr.; J. P. Williams, Jr., Pur. Agt. Mfg. anhydrous ammonia & ammonium nitrate.

MISSOURI

BOONVILLE

CF—R. L. Aggeler Coal & Fertilizer Co.

Tel: 895. R. L. Aggeler, Owner & Mgr. 10,000 tons expected.

CANTON

CFI—Pulse Phosphate Co.

Tel: 18. Richard Pulse, Owner. 4,000 tons.

COLUMBIA

Missouri Farmers Assn., Inc.

General offices only: 201 S. 7th St.; tel: 9741. Fred V. Heinkel, Pres.; R. J. Rosier, Sec.-Treas.; Loryn E. McQuarter, Mgr. Plant Foods Div. Plants at Joplin, Maryland Heights & Springfield, Mo.

A—Shea Chemical Corp.

(Main ofc: Baltimore, Md.) 100,000 tons.

JEFFERSON CITY

Ferm Bureau Service Co. of Missouri, Inc.

General offices only. 223 E. Capital Ave.; P. O. Box 658; tel: 6-4171. H. E. Slusher, Pres.; John Sam Williamson, V.P.; Frank D. Johnson, Sec.-Treas.; Earl F. Downen, Gen. Mgr.; B. B. Mainord, Plant Mgr. & Pur. Agt.; Del Garnett, Mgr. Pesticide Div. Plant at New Florence, Mo.

JOPLIN

BDFG—Missouri Farmers Assn., Inc.—Plant Food Div.

P. O. Box N., Sta. A; tel: 1145. (Main ofc: Columbia, Mo.) Walter R. Horn, Plant Mgr.; Mack A. Barber, Supt.; L. E. McQuarter, (Columbia) Pur. Agt. 70,000 tons. 2 rock mills; numerous hoppers; conveyors; elevators.

Naco-Thurston Fertilizer Co.—Div. W. R. Grace & Co.

General offices. 102 Wall St.; P. O. Box 987; tel: Mayfair 4-6900. Wm. R. Thurston, Pres.; Jno. W. Ground, III, T. C. Stockhausen, L. A. Alden, J. M. Blass, V.P.'s; R. N. Johnson, Treas.; Franklin F. Moon, Sec.; J. E. Reynolds, Jr., Asst. V.P.; R. N. Foglesong, Asst. Sec.; G. L. Carroll, Asst. Sec.; O. M. Walstad, Gen. Prod. Mgr. Plants: Ft. Pierce & Jacksonville, Fla.; Joplin & Trenton, Mo.; Wilmington, N. C.; Findlay, Ohio; Tulsa, Okla.; Charleston & Spartanburg, S. C. A—Joplin plant: tel: MAYfair 4-6036. Wm. Mason, Sales Mgr.; James A. Doyle, Plant Mgr.; Howard Rackley, Supt. Fert. Div.; Bert Crowe, Supt. Chem. Div.

KANSAS CITY

Consumers Cooperative Assn.

General offices only. P. O. Box 2359; tel: Grand 6050. Howard A. Cowden, Pres.; T. H. DeWitt, V.P.; Clifford Miller, Sec.-Treas.; S. A. White, Pur. Agt.; Merle A. Blue, Dir. Fert. Plants; W. L. Barrett, Mgr. Pesticide Div. Plants at: Eagle Grove, Iowa; St. Joseph, Mo., & Muskogee, Okla.

B—Farm Belt Fertilizer & Chemical Co.

Box 417. Doyle Patterson, Pres.; Vernon B. Kassebaum, Sec.; C. H. Fluty, Gen. Mgr.; Murrel W. Buzan, Supt. 35,000 tons.

A—Spencer Chemical Co.

General offices: Dwight Bldg.; tel: Baltimore 6600. Kenneth A. Spencer, Pres.; C. Y. Thomas (Operations); J. R. Riley, Jr., (Sales); John P. Miller (Finance); Gene Morgan, Treas.; Arthur Mag, Sec.; E. V. Friedrich, Asst. Sec. Plants: Pittsburg, Kans.; Henderson, Ky.; Vicksburg, Miss.; Calumet City, Ill.; Orange, Tex.

LA PLATA

CFGH—LaPlata Chemical Co.

Tel: 400. M. E. Belt, Pres.; H. L. Beckman, V.P. & Plant Mgr.; Scott Gault, Treas.; Lester Dent, Sec. 15,000 tons.

MARYLAND HEIGHTS

BDGJ—Missouri Farmers Assn., Inc.—Plant Food Div.

P. O. Box 170; tel: Terryhill 5-7440. (Main ofc: Columbia, Mo.) J. Howard McNeill, Plant Mgr.; R. C. Creasy, Prod. Mgr.; Loryn E. McQuarter (Columbian), Pur. Agt. 50,000 tons.

NEW FLORENCE

CDGHJ—Farm Bureau Service Co. of Missouri, Inc.

P. O. Box 658. (Main ofc: Jefferson City, Mo.) E. F. Downen, Gen. Mgr.; B. B. Mainord, Plant Mgr. & Pur. Agt.; Del Garnett, Mgr. Pesticide Div. 20,000 tons. 1 mill; belt conveyors; screen mixers; bagging equipment; tractor shovels.

NORTH KANSAS CITY

C—Armour Fertilizer Works

110 W. 19th St.; P. O. Box 7431. (Main ofc: Atlanta, Ga.) J. W. Eagleburger, Div. Mgr.

ST. JOSEPH

BDJ—Consumers Cooperative Assn.

Tel: 8-0720. (Main ofc: Kansas City, Mo.) Carl A. Greenberg, Plant Mgr.; Carl McKnight, Supt. 40,000 tons. Hopper system: granulation equipment; belt conveyors.

ST. LOUIS

B—Lange Brothers

1 Angelica St. Henry K. Lange, Pres.; Dewey K. Lange, Sec.-Treas.; Walter Fittge, Supt. 25,000 tons. Stedman acidulator; Stedman mixer; Stedman bagger, 30 tons; hopper system; conveyors & shuttle conveyors.

C—Valley Chemical Co.—Div. Mississippi River Fuel Corp.

407 N. 8th St.; tel: GARfield 1-2030. C. H. Lashlee, Plant Mgr.

SIKESTON

C—Missouri Plant Food Co., Inc.

Box 373. L. G. Black, Pres. & Pur. Agt.; Rex Morgan, V.P.; Earl Day, Sec.-Treas.; Percy McCall, Plant Mgr. & Pur. Agt.; W. J. Jacob, Pur. Agt. 25,000 tons. 3 bagging mills; 1 mixing mill; 2 distributor belts; 1 cross belt; 3 loading conveyors; 1 hopper.

SPRINGFIELD

BDFG—Missouri Farmers Assn.—Plant Foods Div.

Box 1546, S.S.S.; tel: 2-7022. (Main ofc: Columbia, Mo.) H. L. Holman, Plant Mgr.; R. P. Cloud, Supt.; L. E. McQuarter (Columbia), Pur. Agt. 50,000 tons.

TRENTON

C—Naco-Thurston Fertilizer Co.—Div. W. R. Grace & Co.

P. O. Box 220; tel: 316. (Main ofc: Joplin, Mo.) J. R. Bass, Plant Supt. 25,000 tons.

WEBB CITY

B—Tri-State Chemical Co.

P. O. Box 591; tel: 1322. Milo Johnson, Pres. & Gen. Mgr.; L. J. Savana, V.P. & Plant Mgr.; Clifford Casey, Sec.-Treas. 25,000 tons. 1 mill, 2 tons; complete hopper & conveyor systems. Plant also at Springdale, Ark.

MONTANA

ANACONDA

ADG—Anaconda Copper Mining Co. —Fertilizer Dept.

R. A. Jones, Sales Mgr. Fert. Dept. 100,000 tons treble superphosphate, ammoniated phosphate, liquid phosphoric acid & mixed fertilizer.

HARLOWTON

C—Western Fertilizers

P. O. Box 1505. C. William Parker, Pres. & Pur. Agt.; J. R. Hunter, V.P.; L. O. Voss, Sec.-Treas.; J. R. Hunter, Prod. Mgr. 1 mill, 20 tons daily; 1 belt conveyor; 1 hopper & bagger.

NEBRASKA

FAIRBURY

CG—National Fertilizer Co.

P. O. Box 51; tel: 1695. (Main ofc: Des Moines, Iowa) Jerry Mitchell, Plant Mgr. & Pur. Agt.; Harold Tabor, Supt. 15,000 tons.

FALLS CITY

C—Falls City Fertilizer, Inc.

Tel: 1077. (Main ofc: Lincoln Service & Supply, Inc., Grand Island, Nebr.) Howard L. Peterson, Pres. & Pur. Agt.; B. F. Backlund, V.P. Sales; G. L. Downey, Sec.-Treas., Plant Mgr.; Louis Willits, Prod. Mgr. 35,000 tons. 1 mill; overhead belt system; piling conveyors.

FREMONT

CFG—General Fertilizer Co.

301 E. Washington; tel: 84. W. A. Koeplin, Pres.; Victor Keilstrup, Sec.-Treas.; Stewart Daniels, V.P.; J. M. Rice, Dir.; Stewart Daniels, Plant Mgr. & Pur. Agt. 20,000 tons.

GRAND ISLAND

C—Lincoln Service & Supply, Inc.

Box 327; tel: 3237. Howard L. Peterson, Pres., Pur. Agt. & Treas.; B. F. Backlund, V.P.—Sales; Sam Spahr, V.P.; Gilles L. Downey, Sec., Plant Mgr.; Robert Wake-line, Prod. Mgr. 25,000 tons. 2 mills; overhead shuttle conveyor; sacked goods conveyor. Plant also at Falls City & McCook, Nebr.

LINCOLN

C—Soiltone Fertilizer Co.

P. O. Box 1708; tel: 2-6205. John P. McFarland, Pres.; H. J. Rosser, V.P.; R. H. Schum, Treas.; J. W. Schum, Sec. & Plant Mgr.; J. D. Howard, Prod. Mgr.; C. Mason, Pur. Agt. 3,000 to 4,000 tons.

MCCOOK

C—McCook Fertilizer, Inc.

(Main ofc: Lincoln Service & Supply, Inc., Grand Island, Nebr.) Howard L. Peterson, Pres. & Pur.

Agt.; B. F. Backlund, V.P.—Sales; G. L. Downey, Sec.-Treas. & Plant Mgr.; Stan Slay, Prod. Mgr. 10,000 tons.

OMAHA

BDG—Farm Fertilizers, Inc.

Box 351. R. E. Bennett, Pres.; W. H. Woodard, Plant Mgr.; Phillip C. Shugart, Prod. Mgr.; Arthur C. Jetter, Pur. Agt. 50,000 tons superphosphate & mixed fertilizer. 2 St. Regis shipping mills, 25 tons each; complete hopper system; continuous ammoniation system; belt conveyors throughout.

Nebraska Fertilizer Co.

C. H. Smith, Supt.; Lenn Snowden, Prod. Mgr. 4,000 tons.

SCOTTSBLUFF

CFGH—Curry Chemical Co., Inc.

Box 397; tel: 1757. W. A. Curry, Jr., Pres., Sec.-Treas.; E. M. Cowen, Pur. Agt.; Warren Johnston, Prod. Mgr.; C. A. Gilna, Sales Mgr. 18,000 tons.

SOUTH OMAHA

Nitrogen Div.—Allied Chemical & Dye Corp.

P. O. Box 354; tel: Bellevue 0090. (Main ofc: New York, N. Y.) R. L. Riggs, Mgr.

SOUTH SIOUX CITY

CFG—Crystal Chemical Co., Inc.

Box 116; tel: 4261. Fred Scherer, Pres.; Fay P. Stewart, V.P.; Louis McLaughlin, Sec.; Robert Wagner, Treas.; Thomas E. Meylor, Prod. Mgr., Supt. & Pur. Agt. 20,000 tons. 2 mills, 30 tons per hr.; York Foundry elevators & belt conveyors; Blue Valley granulation unit; Hough Payloaders.

NEVADA

LOVELOCK

Growers Fertilizer Co.

(Main ofc: Stockton, Calif.) F. J. Jones, Owner; Earl R. Mog, Supt., Prod. Mgr. & Pur. Agt. 5,000 tons pulverized sheep manure.

NEW JERSEY

BRIDGETON

CFG—G.L.F. Soil Building Service —Div. Coop. G.L.F. Exchange, Inc.

(Main ofc: Ithaca, N. Y.) J. C. Crissey, (Ithaca, N. Y.), Div. Mgr.; E. J. Smith, Prod. Mgr.; John Stark, Supt. 25,000 tons. 2 mills; conveyor system.

Miller Chemical & Fertilizer Co.

(Main ofc: Baltimore, Md.) 3,000 tons.

CFG—Star Fish & Bone Fertilizer Co.

67 S. Laurel St. Charles A. Lubow,

Pres.; Albert Serata, 1st V.P.; Jack G. Kolman, 2nd V.P.; Benjamin Serata, Sec.-Treas.; David M. Lourie, Asst. Sec.-Treas., Pur. Agt. & Comptroller; Aubrey Bitzer, Mgr. Pesticide Div. & Plant Mgr.; Gerald G. Goldstein, Prod. Mgr. 10,000 tons. 1 insecticide & 2 fertilizer elevators; 5 conveyors.

CAMDEN

Thomas & Son Co.

721 Market St. Raymond R. Hull, Pres.; S. R. Coale, V.P. & Treas.; A. M. Carson, Sec.; F. N. Kirk, Pur. Agt. Plant at Paulsboro, N. J.

CARTERET

A—The American Agricultural Chemical Co.

(Main ofc: New York, N. Y.) J. H. Banning, Mgr.; S. D. Ward, Supt.

A—Armour Fertilizer Works

(Main ofc: Atlanta, Ga.) W. E. Wehner, Div. Mgr.

B—Virginia-Carolina Chemical Corp.

Tel: 1-5191; Factory tel: 1-5193. (Main ofc: Richmond, Va.)

COLLINSWOOD

DEFG—Fertilizer Products Corp.

22-32 White Horse Pike; tel: 5-6800. M. E. Fox, Pres.; H. P. Fox, Sec.-Treas. & Plant Mgr. 2,000 tons.

CRANBURY

CEFI—Chamberlin & Barclay, Inc.

E. S. Barclay, Pres.; I. D. Barclay, Treas.; E. Stanley Barclay, Sec.; L. Graham Campbell, Plant Mgr. & Mgr. Pesticide Div. 20,000 tons.

DAYTON

CFI—Dayton Fertilizer Corp.

Georges Road & Penn. R. R. Chester S. Edwards, Pres. & Treas.; S. Schmidt, Sec.; W. A. Nist, V.P., Pur. Agt. & Mgr. Pesticide Div.; L. H. Edwards, Plant Mgr. 25,000 tons.

ENGLISHTOWN

CG—G.L.F. Soil Building Service—

Div. Coop. G.L.F. Exchange, Inc. (Main ofc: Ithaca, N. Y.) J. C. Crissey (Ithaca, N. Y.), Div. Mgr.; E. J. Smith, Prod. Mgr.; A. D. Hoxie, Supt. 15,000 tons. 2 mills; conveyor system.

HACKETTSTOWN

C—United By-Products Co.

Samuel Beatty, Pres.; L. P. Wilson, V.P.; Kenneth Beatty, Sec.-Treas. 2,000 tons.

HIGHTSTOWN

CI—Bennett-Mount Co.

Wyckoff Ave.; P. O. Box 245; tel: 8-1100, -01, -02, -03. G. A. Bennett, George M. Osgood, John H. Mount (Prod. Mgr.), Ptnrs. 4,000 tons.

KINGS

CI—Allen Co.

L.V. Ry. (Main ofc; Pittstown, N. J.) W. A. Allen, Mgr. & Mgr. Pesticide Div.; Robert E. Allen, Plant Mgr. 500 tons.

MILLVILLE

C—The Espoma Co.

Tel: 542. H. G. Sanders, Pres., & Treas. 5,000 tons. 1 mill, 5 tons per hr.; 2 Chantland conveyors; 2 Handy Handler conveyors.

PAULSBORO

AI—I. P. Thomas & Son Co.

(Main ofc; Camden, N. J.) Homer V. Lehn, Prod. Mgr.; Geo. E. Keller, Plant Mgr.; F. N. Kirk, Pur. Agt. 100,000 tons.

PITTSBURY

C—Allen Co.

Tel: Clinton 296-J-3. W. A. Allen Mgr. & Mgr. Pesticide Div.; Robert E. Allen Plant Mgr. 500 tons organic. 5 hammer mills, 8 to 15-in. size; 1 Munson 6 rotary mixer with 6 x 6 charging hopper, elevators, etc.; 1 Ransome 4 mixer with skip loader; 1 Bartlett & Snow 4 x 9 jacket digester, mixer, dryer, etc.; 1 Robinson 1-ton ribbon mixer, elevator, hopper & bagger; 1 Triangle packer (1 lb. to 25 lb bags); 1 Speed-Dee packer (1/2 oz. to 8 oz.); 3 Baird fertilizer pelleting machines, mixer, dryer & cars for fertilizer pellets. Branch plant at Kings, N. J.

PROSPECT PLAINS

CDI—Bennett & Clayton Co., Inc.

Tel: Cranbury 5-0666. Arthur A. Clayton, Pres.; Fred W. Heidinger, V.P.; Fred A. Clayton, Treas.; Edmund A. Rice, Sec.; F. W. Heidinger, Prod. Mgr. & Mgr. Pesticide Div. 5,000 tons. 1 complete equipment unit.

ROCHELLE PARK

CIJ—The Terre Co.

Tel: Hubbard 7-7090. T. A. Terhune, Pres.; C. L. Terhune, Treas.; O. W. Terhune, Sec. & Pur. Agt.; Geo. Skoskil, Supt.; Roy Bosolt, Mgr. Pesticide Div. 5,000 tons. 1 mill; screen; grinder; mixer; elevator; valve packer. Branch plant, Totowa, N. J.

SKILLMAN

CGI—Gould & Olena, Inc.

Tel: Hopewell 6-0215 & 6-0194. Alexander Gould, Pres.; Harold G. Olena, V.P.; H. J. Wichmann, Sec.; Chris Raba, Plant Mgr.; Geo. Hoffman, Trade Sales Mgr.; E. K. Doris, Mgr. Golf Course Maint.; Robert Martino, Mgr. Pesticide Div. 2,700 tons mixed goods, 900 tons bone meal & sheep manure. 2 grinders, 4 packers; automatic & gravity packers.

SOUTH AMBOY

The American Agricultural Chemi-

cal Co.

P. O. Box 239. (Main ofc; New York, N. Y.) Phosphorus plant. E. N. Taylor, Supt.

SOUTH KEARNY

CGI—G.L.F. Soil Building Service—

Div. Coop. G.L.F. Exchange, Inc. (Main ofc; Ithaca, N. Y.) J. C. Crissey, (Ithaca, N. Y.) Div. Mgr.; E. J. Smith, Prod. Mgr.; D. F. Garrison, Supt. 25,000 tons. 2 mills; conveyor system.

SPRINGFIELD

CGI—Doggett-Pfeil Co.

Tel: Millburn 6-5900. Alfred S. Pfeil, Pres.; Sidney H. Doggett, Jr., V.P. & Sec.-Treas.; Richard Toepper, Plant Mgr.; Alfred S. Pfeil, Jr., Prod. Mgr.; Mrs. E. Koonz, Pur. Agt. 5,000 tons.

CDEFG—Andrew Wilson, Inc.

C. H. Morrison, Pres. & Treas.; J. E. Morrison, V.P.; H. C. Heim, Sec. 5,000 tons.

TENNENT

CI—Reed & Perrine, Inc.

Tel: Freehold 8-0373. Frank Perrine, Pres. & Plant Mgr.; John Satterthwaite, V.P. & Mgr. Pesticide Div.; Duncan Perrine, Treas. & Prod. Mgr.; George Chambers, Sec. & Pur. Agt. 7,500 tons. 1 mill, 1 ton; belt conveyor; 1-ton mixer; elevator.

TOTOWA

CIJ—The Terre Co.

Tel: Little Falls 4-1500. (Main ofc; Rochelle Park, N. J.) O. M. Terhune, Plant Mgr.; Roy C. Bosolt, Mgr. Pesticide Div.

TRENTON

C—Trenton Bone Fertilizer Co.

New York Ave. Walter N. Updyke, V.P.; Raymond Hutchinson, Treas.; W. Albert Grove, Sec.; Robert Nimmo, Supt. 20,000 tons.

VINELAND

CF—Wilde Farm Supply Co., Inc.

1051 Hendee Rd.; P. O. Box 164; tel: VI 7-1067. F. U. Wagner, V.P. & Mgr. 7,000 tons.

WOODSTOWN

CF—South Jersey Farmers' Exchange

A. B. Waddington, Pres.; C. B. Mitchell, V.P.; Oscar Ware, Treas.; M. McAllister, Plant Mgr.; S. B. Brown, Prod. Mgr. 10,000 tons. 3 belt conveyors.

YARDVILLE

CFG—G.L.F. Soil Building Service—

Div. Coop. G.L.F. Exchange, Inc. (Main ofc; Ithaca, N. Y.) J. C. Crissey, (Ithaca, N. Y.) Div. Mgr.; E. J. Smith, Prod. Mgr.; John Litzelman, Supt. 25,000 tons. 2 mills; conveyor system.

NEW MEXICO

ALBUQUERQUE

CEFGHI—Edmunds Chemical Co.

2200 S. 2nd St.; P. O. Box 1016; tel: 3-3506. Edward Edmunds, Jr., Owner, Pur. Agt. & Mgr. Pesticide Div.; Robert S. Culpepper, Sales Mgr.; Morris Alcorn, Ofc. Mgr.; Manuel Chaez, Plant Mgr. 1,000-1,500 tons. 1 mill, 1 ton; fork lift trucks.

CDEI—Ravel Brothers, Inc.

(Also operating New Mexico Fertilizer Co.) 525 2nd St.; P. O. Box 462; tel: 3-5522. Arthur Ravel, Pres. & Mgr. Pesticide Div.; Louis Ravel, V.P. & Treas.; Morris Segal, Sec.; John Thomas, Plant Mgr.; Sidney B. Gasser, Prod. Mgr. 10,000 tons.

ANTHONY

FGH—Southwest Fertilizer & Chemical Co.

P. O. Box 204; tel: Wabash 6-2162. (Main ofc; El Paso, Tex.) Alton Bailey, Supt. 25,000 tons.

CARLSBAD

Duval Sulphur & Potash Co.

P. O. Box 510; tel: 5-3175. W. P. Morris, Resident Mgr.; George E. Atwood, Asst. Res. Mgr. & Refining Supt.; J. R. Smith, Pur. Agt. 250,000 to 350,000 tons muriate of potash. Main ofc; Houston, Tex.

International Minerals & Chemical Corp.

(Main ofc; Chicago, Ill.) C. A. Arend, Jr., Mgr.

Potash Co. of America

P. O. Box 31; tel: 5-2111. G. F. Coope, Pres.; G. E. Pettitt, V.P.; F. O. Davis, V.P. & Treas.; R. G. Haworth, V.P. & Resident Mgr.; R. R. Knill, Mine Supt.; A. J. Weinig, Refinery Supt.; C. E. Bothwell, Pur. Agt.

Southwest Potash Corp.

(Main ofc; New York, N. Y.) F. H. Stewart, Plant Mgr.

United States Potash Co., Inc.

Mine & refinery. (Main ofc; New York, N. Y.)

CLOVIS

CF—Sunshine Plant Food Co., Inc.

P. O. Box 885; tel: 3773 & 3539. Bud Williams, Pres.; Z. A. McCasland, V.P.; L. V. Sparks, Sec.; Clyde Rahl, Treas.; Otto Smith, Counsellor.

NEW YORK

ALBANY

CG—G.L.F. Soil Building Service—

Div. Coop. G.L.F. Exchange, Inc. (Main ofc; Ithaca, N. Y.) J. C. Crissey (Ithaca, N. Y.), Div. Mgr.; E. J. Smith, Prod. Mgr.; L. V. Row-

ley, Supt. 25,000 tons. 2 mills; complete hopper & conveyor systems.

BATAVIA

CFGI—G.L.F. Soil Building Service—Div. Coop. G.L.F. Exchange, Inc.

(Main ofc: Ithaca, N. Y.) J. C. Crissey (Ithaca, N. Y.), Div. Mgr.; E. J. Smith, Prod. Mgr.; C. A. Facer, Supt. 30,000 tons. 2 mills; complete hopper & elevator system.

BEACON

CI—Rose Manufacturing Co.

156 Main St. O. James Faloon, V.P., Sec., Mgr. Pesticide Div. & Pur. Agt.; Earl H. Cochrane, Plant Mgr.

BIG FLATS

CI—G.L.F. Soil Building Service—Div. Coop. G.L.F. Exchange, Inc.

(Main ofc: Ithaca, N. Y.) J. C. Crissey (Ithaca, N. Y.), Div. Mgr.; E. J. Smith, Prod. Mgr.; O. M. Howard, Supt. 4,000 tons. 1 mill.

BLUE POINT

CEI—Plant Products Corp.

John Szybillo, Pres.; Joseph Schwartz, V.P.; Albert Kromhout, Treas.; Peter F. Finck, Sec. & Mgr.; E. J. Camson, Prod. Mgr. 5,000 tons.

BRIDGEHAMPTON

CG—G.L.F. Soil Building Service—Div. Coop. G.L.F. Exchange, Inc.

(Main ofc: Ithaca, N. Y.) J. C. Crissey (Ithaca, N. Y.), Div. Mgr.; E. J. Smith, Prod. Mgr.; Fred Markert, Supt. 5,000 tons. 1 mill; conveyor system.

BUFFALO

A—The American Agricultural Chemical Co.

129 Lewis St. (Main ofc: New York, N. Y.) L. B. Dunker, Supt.; C. R. Clemons, Mgr.

B—International Minerals & Chemical Corp.

(Main ofc: Chicago, Ill.) S. P. Marshall, Jr., Dist. Sales Mgr.; C. P. Allen, Supt.

CANASTOTA

CFGHIJ—G.L.F. Soil Building Service—Div. Coop. G.L.F. Exchange, Inc.

(Main ofc: Ithaca, N. Y.) J. C. Crissey (Ithaca, N. Y.), Div. Mgr.; E. J. Smith, Prod. Mgr.; Carl Gillmeister, Supt. 25,000 tons. 2 mills; conveyor system.

DANSVILLE

C—Ra-Pid-Gro Corp.

88 Ossian St. Jas. J. Blum, Treas.; Frances H. Cutler, Sec.; Karlton Randall, Prod. Mgr.; Thos. P. Reilly, Plant Mgr. Several tons a day.

FARMINGDALE

CIJ—Morris Karp & Son

81 Secatogue Ave.; Box 44. Lee O. Karp, Owner, Gen. Mgr. & Pur. Agt.; Edgar Beckvar, Ofc. Mgr.; Jacob F. May, Plant Mgr.; Frank Colby, Prod. Mgr.; Walen Simon, Mgr. Pesticide Div. 10,000 tons. 2 mills, 20 tons per hr.; belt & slat conveyors; hopper system.

HICKSVILLE, L. I.

CEF—Henry A. Pollak & Co.

Charlotte Ave. Henry A. Pollak, Pres.; Rose Pollak, Treas.; Joseph Benaburger, Plant Mgr. 12,000 tons.

HUNTINGTON

C—Gregory-Doyle, Inc.

12,000 tons.

ITHACA

G.L.F. Soil Building Service—Div. Coop. G.L.F. Exchange, Inc.

Terrace Hill. General offices only. J. C. Crissey, Div. Mgr.; A. M. Eno, Mgr. Fert. Dept.; G. H. Serviss, Agronomist; T. J. Clarke, Controller; A. L. Spillman, Prod. Staff; E. J. Smith, Prod. Mgr.; E. H. Phillips, Dir. Pur.; R. B. Lenhart, Asst. Dir. Pur.; P. J. McManus, Mgr. Pesticide Dept. Plants—Albany, Batavia, Big Flats, Bridgehampton, Canastota, Lyons Middletown (pesticides only) & North Collins, N. Y.; Bridgeton, Englishtown, South Kearny, & Yardville, N. J.; Union City, Pa.

JAMESPORT, L. I.

C—Atlantic Fertilizer Corp.

(Main ofc: Riverhead, N. Y.) R. C. Tuthill, Plant Mgr. 15,000 tons. 2 mills; hopper & conveyor systems.

LOCKE

CE—Atwater Co.

J. Dwight Atwater, Ptnr. & Pur. Agt.; Louise A. Chester, Ptnr.; Marian A. Bradley, Ptnr.; Ralph D. Coulson, Ptnr., Plant Mgr. & Pur. Agt. 1,500 tons.

LYONS

CFGJ—G.L.F. Soil Building Service—Div. Coop. G.L.F. Exchange, Inc.

J. C. Crissey (Ithaca, N. Y.), Div. Mgr.; E. J. Smith, Prod. Mgr.; Hugh Litzelman, Supt. 25,000 tons.

C—F. S. Royster Guano Co.

(Main ofc: Norfolk, Va.) W. N. Hurtt, Jr., Mgr. Sales Ofc.; W. H. Bigelow, Supt. 30,000 tons.

MARION

CDFG—C. Roy Curtis & Son, Inc.

Tel: 4214. C. Albert Curtis, Pres., Treas. & Pur. Agt.; W. Roy Converse, V.P.; Dorothy D. Curtis, Sec.; Howard Hance, V.P. & Gen. Mgr. 10,000 tons. 1 mill, 5 tons per hr.; 2 conveyors—rubber belts.

MATTITUCK, L. I.

CEG—Long Island Produce & Fertilizer Co., Inc.

(Main ofc: Riverhead, N. Y.)

NATURAL BRIDGE

AGIJ—Carbola Chemical Co., Inc.

Tel: 2901. C. J. Zimmerman, Pres.; H. T. Koenig, Sec.-Treas.; Donald Donaghy, Plant Mgr.; Phillip Blazovic, Prod. Mgr.; Clayton Redman, Pur. Agt.; H. T. Koenig, Mgr. Pesticide Div. 36,000 tons.

NEWARK

C—The Baugh & Sons Co., Inc.

(Main ofc: Baltimore, Md.) A. N. Temple, Mgr.

NEW YORK

The American Agricultural Chemical Co.

Executive offices only. 50 Church St. Charles M. Powell, Pres.; Arnold W. Cramer, Sr., V.P.; Gerard W. Gaffney, V.P.—Sales Prom. & Adv.; John R. Scherm, V.P.—Fert. Sales; Frederick R. George, V.P.—Chem. Sales; B. R. Richey, V.P.—Prod.; Wm. H. Hildebrandt, Comptroller & Sec.; Hughes Mayo, Treas.

American Cyanamid Co.

General offices only, 30 Rockefeller Plaza (Zone 20); tel: Circle 7-0100. James Gorman, Mgr. Nitrogen Dept.; John C. Bennett, Mgr. Phos. Rock Dept.; R. W. Yoder, Acctg. Mgr. Insecticide Dept.

C—Atkins & Durbrow, Inc.

165 John St. W. B. Milner, Pres.

The Calumite Corp.

Executive offices only. 9 Rockefeller Plaza (Zone 20). Bradley A. Walker, Pres.; Raymond V. Testa, Controller. (General offices: Altadena, Calif.; mill & mines: Marysville, Utah.)

Capital Fertilizer Co.

General office only. 61 Broadway. Plant at Montgomery, Ala.

Chilean Nitrate Sales Corp.

General offices only. 120 Broadway (Zone 5); tel: REctor 2-8680. J. F. Doetsch, Pres.; R. F. Camp, V.P. & Gen. Sales Mgr.; Gilbert Balkam, Sec.-Treas.; F. P. Bryan, Asst. Gen. Sales Mgr.; A. J. Lockwood, Pur. Agt. District offices: Raleigh, N. C., B. F. Crumpler, Dist. Mgr.; Columbia, S. C., Edward Sterne, Jr., Dist. Mgr.; Atlanta, Ga., Watts Gunn, Dist. Mgr.; Montgomery, Ala., T. L. Jefferies, Dist. Mgr.; Jackson, Miss., W. H. Milam, Dist. Mgr.; Shreveport, La., Harold Hamby, Dist. Mgr.; Los Angeles, Calif., E. J. Shaw, Dist. Mgr.

Fertilene Corp. of America.

General offices only. 251 Central

Park, W. (Zone 24). E. J. Frank, Pres. & Pur. Agt.; Maurice Ross, V.P. & Mgr. Plant at Worthington, Ohio.

Nitrogen Div.—Allied Chemical & Dye Corp.

General offices only, 40 Rector St. (Zone 6); tel: HANover 2-7300. Hugo Riemer, Pres.; Dr. M. F. Fogler & F. T. Techter, Exec. V.P.'s; Dr. C. S. Fazel & J. White, V.P.'s; J. M. Gaston, Jr., Asst. Sec.; E. F. Fielder, Aud.; J. A. Cassidy, Jr., Treas.; G. B. Meredith, Dir. of Prod.; J. J. Porter, Asst. to Exec. V.P.; E. W. Harvey, Dir. of Sales; M. E. Hunter, Asst. Dir. of Sales; R. M. Jones, Dir. of Product Development; J. D. Waugh, Dir. of Information; G. W. Suggs, Southern Sales Mgr.; T. C. Rogers, Northern Sales Mgr.; W. H. Mortimer, Mgr. Western Dist. Plants at: S. Omaha, Nebr.; Ironton, Ohio & Hopewell, Va.

CD—Premier Peat Moss Corp.

535 5th Ave.; tel: Murray Hill 2-8586. Ernst Mayer, Pres.; Oskar Mayer, V.P.; F. W. Koerner, Sec.

Shell Chemical Corp.

Head office—50 W. 50th St. (Zone 20). R. C. McCurdy, Pres.; G. R. Monkhouse, V. P.—Western Div.; L. M. Roberts, Gen. Mgr.—Mfg.; L. V. Steck, V.P.—Mktg.; A. G. Schel, Treas.; G. E. Brewer, Sec.; E. S. Bodine & F. Kuenzly, Plant Mgrs.; W. H. Bratches, Pur. Agt.

Southwest Potash Corp.

General offices. Tel: BO 9-9290. Heath Steele, Pres.; Thos. W. Childs & T. E. Camp, Jr., V.P.'s. Mine at Carlsbad, N. M.

Tennessee Corp.

General offices only. 61 Broadway. E. H. Westlake, Pres.; M. A. Caine, V.P.; J. G. Greenburgh, V.P. & Treas.; B. W. Bellinger, V.P.; Henry Kaufman, Sec. Materials Sales office, Atlanta, Ga. Fertilizer Plants: Lockland (Cincinnati), Ohio; New Albany, Indiana; Attalla & Tuscaloosa, Ala.; East Point, Cedartown, Gainesville, Ga.; East Tampa, Fla. Products: Super-Triple Superphosphate, Complete Fertilizers, Loma, Sodium, Silico Fluoride.

United States Potash Co., Inc.

30 Rockefeller Plaza (Zone 20). General office only. Mine at Carlsbad, N. M.

NIAGARA FALLS

International Minerals & Chemical Corp.

4626 Royal Ave.; P. O. Box 866. (Main ofc: Chicago, Ill.) C. H. Berle, Mgr. Ind. Chem. Plant.

NORTH COLLINS

CG—G.L.F. Soil Building Service—Div. Coop. G.L.F. Exchange, Inc.

(Main ofc: Utica, N. Y.) J. C. Crissey (Utica, N. Y.), Div. Mgr.; E. J. Smith, Prod. Mgr.; Wm. Mason, Supt. 15,000 tons. 2 mills; conveyor system.

ONEIDA

C—The Baugh & Sons Co., Inc.

(Main ofc: Baltimore, Md.) William H. Bean, Mgr.

PHOENIX

C—The American Agricultural Chemical Co.

P. O. Box 507. (Main ofc: New York, N. Y.) J. D. McMurray, Mgr.; E. R. Steltzer, Supt.

RIVERHEAD

Atlantic Fertilizer Corp.

Box 149; tel: 8-4000. Z. R. Hallock, Pres.; Walter E. Stark, Treas.; Wm. C. Stark, Sec. & Pur. Agt. Plant at Jamesport, N. Y.

CEIJ—Long Island Produce & Fertilizer Co., Inc.

General offices. Tel: 8-3100. C. C. Young, Pres.; N. A. Talmage, G. H. Kaelin, R. J. Carey, V.P.'s; Geo. Cushman, Treas. & Gen. Mgr.; S. P. Batchelder, Sec.; Hugh J. Benjamin, Mgr. Pesticide Div. 20,000 tons. 2 Sturdevant mills. 1 Atlanta Utility mill; 6 belt conveyors. Branch plants at Southold & Mattituck, N. Y.

ROCHESTER

CFGJ—Gormel Plant Food Products

175 South Ave. C. J. Gormel, Ptnr. & Pur. Agt.; G. H. Gormel, Ptnr.; Chas. I. Diehl, Plant Mgr. 1,000 tons.

SOUTHOLD, L. I.

CEG—Long Island Produce & Fertilizer Co., Inc.

(Main ofc: Riverhead, N. Y.)

SYRACUSE

C—Syracuse Rendering Co.

Tel: 72-4491. (Main ofc: Consolidated Rendering Co., Boston, Mass.) A. South, Jr., Plant Mgr. 8,000 tons. 1 2-ton mill.

UNION HILL

C—Russell Fertilizer Works

(Main ofc: Williamson, N. Y.) John Mogray, Supt. 2,000 tons. Hoppers (home-made); Link-Belt conveyors.

WILLIAMSON

Russell Fertilizer Works

Russell Rd.; tel: 4923. Chas. P. Russell, Pres. & Sec.; B. C. Russell, 1st V.P.; Russell Remscheid, 2nd V.P.; J. M. Russell, Treas. Plant at Union Hill, N. Y.

NORTH CAROLINA

ACME

AI—Acme Fertilizer Co.

(Main ofc: Wilmington, N. C.) T. E. Burns, Plant Mgr. 50,000 tons.

ANGIER

C—Jones Fertilizer Co.

J. P. Jones, Owner. 2,000 tons.

CHARLOTTE

G—Alco Liquid Fertilizer Co.

2109 Hutchinson Ave.; P. O. Box 1662. Preston I. Delph, Pres.; T. A. Nodell, V.P.; Mrs. R. I. Delph, Treas.; Mrs. Dorothy Sizemore, Sec.; J. L. Bass, Plant Mgr.; Mac Banks, Pur. Agt. 35,000 gal.

A—Planters Fertilizer & Phosphate Co.

P. O. Box 1788. (Main ofc: Charleston, S. C.) Homer N. Wright, Plant Mgr. 30,000 tons.

B—F. S. Royster Guano Co.

(Main ofc: Norfolk, Va.) L. G. Powell, Mgr. Sales Ofc.; R. A. Parnell Supt. 50,000 tons.

B—Virginia-Carolina Chemical Corp.

Tel: 3-3344. (Main ofc: Richmond, Va.)

CLINTON

C—Ross Fertilizer Co.

P. O. Box 69. G. R. Ross & Clarence Kirven, Jr., Ptnrs.; C. C. Barefield, Plant Mgr. 5,000 tons.

DAVIDSON

CF—The Southern Cotton Oil Co.

P. O. Box 98; tel: 2021. (Main ofc: New Orleans, La.) W. A. Thompson, Mgr.

DUNN

CEJ—Johnson Cotton Co.

(Main ofc: Wilmington, N. C.) Earl West, Plant Mgr.; W. G. Smith, Prod. Mgr. 15,000 tons.

DURHAM

A—Virginia-Carolina Chemical Corp.

Tel: 3-5841. (Main ofc: Richmond, Va.)

EDENTON

CGH—Home Feed & Fertilizer Co.

P. O. Box 183. John G. Wood, Pres. & Treas.; Lelia B. Wood, V.P.; W. G. Wood, Jr., Sec.; Roy H. Spruill, Plant Mgr. & Pur. Agt.; E. B. Boyce, Prod. Mgr. 10,000 tons. 1 mixer, 1 ton; overhead conveyor, unloading conveyor.

ELIZABETH CITY

CD—Ball Fertilizer Co.

P. O. Box 27; tel: 4690. C. L. Ball, Jr., Ptnr.; J. W. Ball, Active Ptnr. 5,000 tons. 1 mill, 1 ton Ransome; Corrigan belt conveyor; 2 Hough Payloaders; Tyler screen; Stedman grinder.

FAIRMONT

C—Master Chemical Corp.

James A. Hunter, Pres. & Mgr. 1-500 tons.

FARMVILLE

C—Farmville Oil & Fertilizer Co.

600 W. Pine St. Irvin Morgan, Jr., Pres. & Plant Mgr.; F. F. Jeter, V.P.; W. A. Pollard, Jr., Sec.; F. S. Moore, Treas. 20,000 tons. 2 mills, 1 ton.

FAYETTEVILLE

CJ—Eastern Guano Co.

P. O. Box 811; tel: 2-2564. E. J. Wellons, Sr., Pres.; R. J. Boaz, Gen. Mgr. 6,000 tons. 1 mill, 12,000 ton capacity.

FREMONT

C—Fremont Oil Mill Co.

Owned by stockholders; J. B. Lane, Pres.; E. R. Lane, V.P.; Mrs. P. L. Hayes, Sec.-Treas.; W. R. Jones, Plant Mgr.; Bill Alcroft, Prod. Mgr. 5-10,000 tons. 2 mills, mix 250-300 tons in 8-10 hrs.; belt conveyor.

GIBSON

C—The Southern Cotton Oil Co.

(Main ofc: New Orleans, La.) A. J. Gardner, Mgr.

GOLDSBORO

C—The Southern Cotton Oil Co.

P. O. Box 564; tel: LD26. (Main ofc: New Orleans, La.) Dist. ofc. for mfg. & sales at following points: Fayetteville, Goldsboro, Hertford, Rocky Mount, Selma, Tarboro, Weldon & Wilson, N. C. W. V. Westmoreland, Dist. Mgr.

CF—Weil's Fertilizer Works, Inc.

Box 579; tel: 2800; plant tel: 68. Frank Seymore, Pres.; Abram Weil, V.P.; Henry Weil, Sec.-Treas.; W. D. Edwards, Plant Mgr. 12,000 tons. 2 1-ton mills, 20 tons per hr. each; overhead belt conveyors.

GREENSBORO

A—The American Agricultural Chemical Co.

P. O. Box 1139. (Main ofc: New York, N. Y.) G. D. Littlejohn, Supt.; Y. C. Hines, Mgr.

A—Armour Fertilizer Works

(Main ofc: Atlanta, Ga.) Harry H. Kemp, Div. Mgr.

Morris Fertilizer Co.

(See Armour Fertilizer Works listing immediately preceding.)

C—Swift & Co.—Plant Food Div.

P. O. Box 1318. (Main ofc: Chicago, Ill.) W. H. Parker, Mgr.

GREENVILLE

CDFGIJ—Blount Fertilizer Co.

Tel: 2547. J. H. Blount, Pres.; F. L. Blount, V.P.; A. R. Barrett, Treas.; M. K. Blount, Sec.; C. R. Wright, Plant Mgr.; J. H. Blount, Jr., Pur.

Agent. 16,000 tons. 1 mill; completely mechanized with Atlanta Utility equipment.

C—Virginia-Carolina Chemical Corp.

Tel: 2922. (Main ofc: Richmond, Va.)

HENDERSON

C—The American Agricultural Chemical Co.

P. O. Box 690. (Main ofc: New York, N. Y.) W. H. Masters, Mgr.; S. B. Harris, Supt.

KINSTON

CD—Smith-Douglass Co., Inc.

West Bright St.; P. O. Box 596. (Main ofc: Norfolk, Va.) E. B. Peacock, Plant Mgr.; C. W. Moore, Supt.; J. A. Monroe, Pur. Agt. 35-000 tons.

LAURINBURG

BFGH—Dixie Guano Co.

P. O. Box 152. Edwin Pate, Pres.; Jno. F. McNair, Jr., V.P.; W. M. Campbell, Sec.-Treas. & Gen. Mgr.; C. L. Durham, Supt. 3 mills; batch hopper system; 3 belt conveyors.

LUMBERTON

CGJ—Farmers Cooperative Exchange

(Main ofc: Raleigh, N. C.) C. E. McLaurin, Plant Mgr. 3,000 tons.

CDJ—Robeson Manufacturing Co.

Maxton Rd.; P. O. Box 1096; tel: 4644. Edwin Pate (Laurinburg, N. C.), Pres.; F. K. Biggs, Sr., V.P.; T. E. Holliday, Treas., Gen. Mgr. & Mgr. Pesticide Div.; Mrs. Murch Butler, Sec.; D. S. Davidson, Supt. 5-6,000 tons.

MATTHEWS

C—I. G. Wallace & Son

Rt. 1; tel: (Charlotte) ED 3-9338. J. L. Wallace, Ptnr. & Mgr. 40 tons per day.

MAXTON

CDGH—Maxton Oil & Fertilizer Co.

E. H. Evans, Pres.; J. D. Medlin, V.P., Treas., Prod. Mgr. & Pur. Agt.; Mayne McQueen, Sec.; E. L. Taylor, Supt. 5,000 tons.

MOUNT OLIVE

C—Ricks Fertilizer Co.

T. Nelson Ricks, Pres.; Edgar N. Ricks, V.P.; Wm. F. Ricks, Sec.-Treas. 4,000 tons.

NAVASSA

A—Armour Fertilizer Works

(Main ofc: Atlanta, Ga.) F. L. Wooten, Jr., Div. Mgr.

NEW BERN

The Baugh & Sons Co.

(Main ofc: Baltimore, Md.) G. Allen Ives, Div. Sales Mgr.

CFH—Dixie Chemical Corp.

Tel: 2002. Leo H. Harvey, Pres;

N. S. Stokes, V.P., Prod. Mgr. & Pur. Agt.; C. Felix Harvey, III, V.P.; D. C. Flowers, Sec.-Treas.; K. G. Johnson, Plant Supt. 30,000 tons.

C—New Bern Oil & Fertilizer Co.

J. S. Weskett, Pres.; H. G. Swan, V.P.; W. W. McCotter, Sec.-Treas. 20,000 tons. 2 mills, Batchmaster.

C—Virginia-Carolina Chemical Corp.

Tel: 2095. (Main ofc: Richmond, Va.)

NEWTON

C—Newton Oil & Fertilizer Co.

J. W. Abernethy, Pres.; H. L. Arndt, V.P.; F. F. Schrum, Sec.-Treas.; Lell Setzer, Plant Mgr. 2-500 tons.

PINE LEVEL

CG—The Pine Level Oil Mill Co.

Box 48. Doc. R. Oliver, Pres. & Mgr.; D. Buren Oliver, V.P.; R. E. Oliver, Sec.-Treas.; A. H. Watkins, Plant Mgr. 10,000 tons. 1 mill.

RALEIGH

CDEFI—Farmers Cooperative Exchange

S. E. Boswell (Salisbury, N. C.), Pres.; H. C. Ferebee (Camden, N. C.), V.P.; G. D. Arndt, Treas.; M. G. Mann, Sec. & Gen. Mgr.; A. P. Sale (Richmond, Va.), Mgr. Coop. Fert. Service. 20,000 tons. 2 mills; belt conveyors; hopper system. Plants also at Lumberton & Salisbury, N. C.

C—Robertson Chemical Corp.

Box 68; tel: 4-3431. (Main ofc: Norfolk, Va.) C. W. Best, Prod. Mgr.; S. N. Carroll, Mgr. 10,000 tons.

RED SPRINGS

CFGHJ—Liberty Manufacturing Co.

Edwin Pate, Pres.; E. H. Evans, V.P.; G. T. Ashford, Sec.-Treas.; James I. Owens, Jr., Supt.; J. F. McKay, Mgr. Pesticide Div. 7,000 tons. Hoppers; belt conveyor; overhead bucket conveyor.

ROCKINGHAM

CFGHJ—McLaurin's, Inc.

P. O. Box 869; tel: 4662 & 2224. E. Bert McLaurin, Pres.; Joe M. McLaurin, V.P. & Mgr. Pesticide Div.; Mrs. B. F. McLaurin, Sec.; J. H. Gibson, Treas.; Harry Jeffords, Plant Mgr. 5,000 tons.

ROCKY MOUNT

CGHJ—Planters Cotton Oil & Fertilizer Co.

1004 Cokey Rd.; tel: 2-2131. R. D. Gorham, Pres.; W. M. Daughtridge, J. D. Robbins, W. T. Melvin, G. W. Gorham, Jr. (Prod. Mgr.), V.P.s; J. L. Murphy, Treas.; T. H. Pitt, Sec.; C. J. Raynor, Supt. Branch at Scotland Neck, N. C.

C—The Southern Cotton Oil Co.

P. O. Box 109; tel: 1931. (Main ofc:

New Orleans, La.) J. E. Lambert, Jr., Mgr.

ROXBORO

C—Camp Chemical Co., Inc.
Thomas R. Bennett, Mgr. 10,000 tons.

SALISBURY

C—Cooperative Fertilizer Service, Inc.
P. O. Box 1468; tel: 3772. (Main ofc: Farmers Cooperative Exchange, Raleigh, N. C.) S. E. Boswell, Pres.; B. A. Weddington, Prod. Mgr. 20,000 tons. 1 mill; complete conveyor & hopper system.

SANFORD

C—Sopona Mills, Inc.
Box 729; tel: SPring 4-7361. Shipping point: Monroe Park, N. C. Tempe B. Barringer, Pres.; John Barringer, V.P.; Paul J. Barringer, Treas. 5,000 tons. 1 mill; conveyor & hopper system.

SCOTLAND NECK

CEGHJ—Shields Co.
P. O. Box 365; tel: 222-1. Frank P. Shields, Mgr.; S. F. Johnson, Plant Mgr. 5,000 tons. 1 mill, 10 tons per hr.; 1 Hough Payloader.

Planters Cotton Oil & Fertilizer Co. (Main ofc: Rocky Mount, N. C.)

SELMA

A—Virginia-Carolina Chemical Corp.
Tel: 2184. (Main ofc: Richmond, Va.)

SHELBY

C—D. A. Beam Co., Inc.
P. O. Box 206. Dennis A. Beam, V.P.; Miles A. Beam, Sec.-Treas.; Edwin A. Beam, Gen. Mgr.; A. Pinkney Dedmon, Plant Mgr. 10,000 tons.

CF—The Southern Cotton Oil Co.
P. O. Box 472; tel: 9091. (Main ofc: New Orleans, La.) R. C. Barnett, Mgr.

SMITHFIELD

C—Wallace Guano Co.
Box 147; tel: 2644. Dixon Wallace, Pres.; L. L. Nordan, V.P., Plant Mgr. & Co-Prod. Mgr.; L. H. Wallace, Sec.-Treas. & Pur. Agt.; H. E. Rice, Co-Prod. Mgr. 6,000 tons. 1 mill; 1 mixer, 1 ton; belt conveyors from mixer to storage pile.

STATESVILLE

CF—Robertson Chemical Corp.
Tel: 3994. (Main ofc: Norfolk, Va.) W. E. DeJarnette, Mgr.; M. K. Brown, Supt. 50,000 tons.

WADESBOBO

C—Virginia-Carolina Chemical Corp.

Tel: 366. (Main ofc: Richmond, Va.)

CFGH—Wadesboro Fertilizer Co.
Tel: 275. R. T. B. Little, Mgr. 30 tons per hr.

WARRENTON

C—Warren Cotton & Fertilizer Co., Inc.
Tel: 263-1. H. W. Rodwell, Pres.; C. E. Rodwell, Sec.-Treas. & Pur. Agt.; J. P. Twitty, Plant Mgr. 3,000 tons. 1 mill, 1 ton; 1 endless belt conveyor.

WAYNESVILLE

C—Smoky Mountains Fertilizer Co.
P. O. Box 670; tel: GL 6-6321. C. G. Thompson, Pres., Treas. & Prod. Mgr.; W. L. Harwell, V.P.; E. F. Thompson, Sec.; E. N. Kimbrough, Supt. 10,000 tons. 1 mill, 30 tons; basing unit.

B—Western Carolina Phosphate Co.
Tel: GLendale 6-6321. J. W. Rutland, Pres. & Treas.; C. G. Thompson, V.P. & Sec.; E. N. Kimbrough, Supt. 30,000 tons superphosphate. Belt conveyors; mechanical den.

WHITEVILLE

C—Reliance Guano Co., Inc.
410 E. Main St.; tel: 2326. F. R. Dulaney, Pres. & Treas.; W. H. Read, V.P.; Mrs. Mary D. Lovett, Sec.; C. D. Henderson, Plant Mgr.; J. D. Lee, Prod. Mgr. 12,000 tons. 1 mill, 1½ tons; 1 belt conveyor.

WILLIAMSTON

CEGI—Olin Mathieson Chemical Corp.—Agricultural Chemicals Div.
Tel: 2131. Standard Fertilizer Div. C. G. Crockett, Div. Mgr.; R. W. Bondurant, Supt. of Plants; J. C. Cooke, Mgr. Fert. Sales & Credit Mgr.; W. W. Tice, Mgr. Insecticide, Fungicide & Herbicide Sales; S. L. Dilda, Mgr. Irrig. Eqpt. Sales. 1 mill, 4.4 tons per hr.

WILMINGTON

Acme Fertilizer Co.
Office only. Tel: 2-3361. Thomas H. Wright, Sr., Chmn. of Board; Thomas H. Wright, Jr., Pres.; L. P. Campbell, V.P. & Sec.; N. J. Kelly, Treas.; W. Clark Bellamy, Mgr. Pesticide Div. Plant at Acme, N. C.

C—International Minerals & Chemical Corp.

(Main ofc: Chicago, Ill.) J. F. Carroll, Dist. Sales Mgr.; J. B. Vanderver, Supt.

CEJ—Johnson Cotton Co., Josey Fertilizer Corp.

P. O. Box 1259. N. M. Johnson, Pres.; W. J. Thompson, V.P.; W. G. Smith, Sec.-Treas.; N. C. Littlejohn, Supt. 35,000 tons. 3 mills, 50 tons per hr. Plant also at Dunn, N. C.

CI—Naco-Thurston Fertilizer Co.—Div. W. R. Grace & Co.

P. O. Box 180; tel: 6621. (Main ofc: Joplin, Mo.) J. M. Blass, Mgr.; E. L. Crump, Supt.

C—Pearsall & Co.

Box 626. J. W. Smith, Pres.; Malzar Pearsall, Jr. & Oscar Pearsall, V.P.s; M. W. Pearsall, Sec.; J. E. Benton, Plant Mgr. 15,000 tons.

C—Robertson Chemical Corp.

Tel: 5258. (Main ofc: Norfolk, Va.) C. W. Best, Prod. Mgr.; R. V. Fulk, Mgr.; J. C. Frye, Supt. 50,000 tons.

C—F. S. Royster Guano Co.

(Main ofc: Norfolk, Va.) J. H. Stamps, Supt. 45,000 tons.

C—Smith-Douglass Co., Inc.

(Main ofc: Norfolk, Va.) J. J. Pointer, Plant Mgr.

A—Swift & Co.—Plant Food Div.

P. O. Box 210. (Main ofc: Chicago, Ill.) J. S. Zapf, Mgr.

A—Virginia-Carolina Chemical Corp.

Tel: 7717 & 7718; Factory tel: 7963. (Main ofc: Richmond, Va.)

C—Wilmington Fertilizer Co.

Box 700. Edwin Pate, Pres.; Herman N. Hayden, V.P. & Treas.; R. M. Padrick, Jr., Sec.; George Sloan, Jr., Plant Mgr.

WILSON

B—Contentnea Guano Co.

Box 1016; tel: 2636. A. B. Farmer, (Bailey, N. C.), Pres.; Irvin Morgan, Jr., V.P., Gen. Mgr., Prod. Mgr. & Pur. Agt.; B. B. Plyler, Sec.-Treas.; H. W. Cannon, Supt. 25-35,000 tons. 3 mills, 5-800 tons per day; belt conveyors; hopper system.

B—Farmers Cotton Oil Co.

510 E. Barnes St.; P. O. Box 980; tel: 2154. T. F. Bridgers, Pres.; C. P. Harris, V.P.; Jno. L. Day, Sec.; E. R. Bridgers, Asst. Sec.; H. M. Rogers, Treas.; C. M. Kirby, Asst. Treas.; W. G. Bryant, Supt. & Eng. 50,000 tons. Plant also at Norfolk, Va.

C—The Southern Cotton Oil Co.

P. O. Box 698; tel: 3146. (Main ofc: New Orleans, La.) A. H. Wells, Mgr.

WINSTON-SALEM

C—International Minerals & Chemical Corp.

(Main ofc: Chicago, Ill.) Frank Kimbrough, Supt.

C—Weaver Fertilizer Co.

N. Cherry St., Ext.; tel: 2-1359. (Main ofc: Norfolk, Va.) J. E. Landers, Plant Mgr. 25,000 tons. 2 mills.

NORTH DAKOTA

FARGO

CGH—Peavey Fertilizer Plant—Div.

F. H. Peavey & Co.
1817 Great Northern Dr.; P. O. Box 1916; tel: 2-2401. (Main of: Minneapolis, Minn.) Dave Williams, Plant Mgr. & Pur. Agt. 25,000 tons. 1 mill, 30 tons per hr.; hopper system, automatic weigh; bulk conveyors including Craneveyor; bag conveyors for car & truck loading.

GRAND FORKS

CJ—Agasco Chemicals, Inc.
700 N. 3rd St.; tel: 4-5325. L. A. Brown, Pres., Plant Mgr. & Pur. Agt.; C. W. Sande, V.P. 12,000 tons.

C—The Summers Fertilizer Co., Inc.
Hwy. 81 North; tel: 4-4638. (Main of: Baltimore, Md.) W. A. Stolt, Mgr.; W. A. Rasmussen, Asst. Mgr. 20,000 tons.

OHIO

ALLIANCE

C—Davison Chemical Co.—Div. W. R. Grace & Co.
P. O. Box 599; tel: 2297. (Main of: Baltimore, Md.) M. C. Evans, Mgr.; G. Round, Supt. 30,000 tons.

C—The Farm Bureau Cooperative Assn., Inc.
(Main of: Columbus, Ohio)

BELLEVUE

CDJ—Wm. C. Horn, Inc.
Wm. C. Horn, Pres. & Treas.; Florence E. Horn, V.P. & Sec.; James E. Whyde, Plant Mgr.; John P. Lafferty, Prod. Mgr. 2,000 tons.

CAIRO

B—The American Agricultural Chemical Co.
P. O. Box 158, Lima, Ohio. (Main of: New York, N. Y.) J. C. Sliger, Mgr.; D. C. Rapalje, Supt.

CANTON

C—Baugh & Sons Co. of Ohio
(Main of: Baltimore, Md.) C. L. Thompson, Mgr.

CAREY

The Smith Agricultural Chemical Co.—Organic Products Div.
Box 155; tel: 9129. (Main of: Columbus, Ohio) W. W. Clark, Jr., Plant Mgr.; Earl F. Cline, Prod. Mgr. 17,000 tons humus. 2 hot air dryers; Jeffrey chain conveyor to hoppers.

CHILLICOTHE

C—Scioto Farm Chemicals, Inc.
Tel: 3-0803. Kenneth Conard, Pres. & Pur. Agt.; Dwight McCalla, V.P.; Donald Conard, Sec. & Plant Mgr.; George Elsass, Atty. 7,500 tons. 1 mill, 25 tons per hr.; 1 receiving elevator; 4 belt conveyors; 1 Stedman mixer; 2 Stedman screens; 2 Stedman pulverizers; mixed goods elevator; 1 shipping

elevator; Exact Weight baggers; 1 Hough Payloader.

CINCINNATI

A—The American Agricultural Chemical Co.

P. O. Box A, St. Bernard Sta. (Main of: New York, N. Y.) H. O. Beatty, Mgr.; H. B. Houghtaling, Supt.

B—Armour Fertilizer Works

(Main of: Atlanta, Ga.) J. G. Bryant, Div. Mgr.

A—Virginia-Carolina Chemical Corp.
St. Bernard; tel: AVON 1935 & 1936. (Main of: Richmond, Va.)

Chemical Div.
Plant at Fernald (Cincinnati), Ohio.

CLEVELAND

A—The American Agricultural Chemical Co.

West Park Sta. (Main of: New York, N. Y.) Bernard Eiselstein, Mgr.; A. M. MacDonald, Supt.

C—The Stadler Fertilizer Co.

1010 Denison Ave. J. F. Johnson, Chmn. of Board; W. W. Johnson, Pres. & Treas.; O. C. Herest, V.P. & Sec.; V. E. Winans, V.P. 20,000 tons.

B—Swift & Co.—Plant Food Div.

Box 2740, West Park Sta. (Main of: Chicago, Ill.) R. A. Culbertson, Mgr.

COLUMBUS

B—Davison Chemical Co.—Div. W. R. Grace & Co.

8 E. Long St. (Zone 15); tel: Capital 4-7239. (Main of: Baltimore, Md.) M. C. Evans, Mgr.; E. Wright, Prod. Supt.

The Farm Bureau Cooperative Assn., Inc.

General offices only. 245 N. High St.; tel: CA 1-1141. W. N. Woods, Pres.; H. D. Heckathorn, V.P.; K. N. Probasco, Treas.; R. E. Gibbs, Sec.; W. W. Wilson, Pur. Agt.; Robt. A. Garn, Mgr. Fert. & Mgr. Div. Plants at Alliance, Dayton, Glendale, Maumee & Marietta, Ohio.

A—The Farmers Fertilizer Co.

1380 Windsor Ave.; P. O. Box 2002; tel: WN 4153. R. K. Cooper, Pres.; H. E. Wood, V.P. & Gen. Mgr.; E. G. Schultz, V.P.; B. P. Redman, Jr., Sec., Pur. Agt., Prod. & Sales Mgr.; M. Y. Cooper, II, Asst. Sec.; H. E. Wood, Treas. & Pur. Agt.; I. C. Armistead, Asst. Treas.; W. A. Hendrix, Acid Plant Supt.; P. D. Sadler, Fert. Plant Supt. 50,000 tons acid, 50,000 tons fertilizer. 3 bagging mills, 75 tons per hr.; belt conveyors for both bulk & bagged goods; hoppers used on mixing unit.

B—Federal Chemical Co.

Bonham Ave. (Main of: Louis-

ville, Ky.) Carl E. Alkire, Plant Mgr.; Carl R. Stillings, Div. Sales Mgr.

The Smith Agricultural Chemical Co.

General offices only. Tel: FA 1115. Jno. E. Powell, Pres.; Nelson T. White, 1st V.P. & Sales Mgr.; Marshall A. Smith, W. F. Farley & Elmer C. Barsch, V.P.'s; C. S. Schmelzer, Treas.; Carl E. Veth, Sec. & Pur. Agt.; Frank H. Nicklaus, Supt.; Earl F. Cline, Prod. Mgr.; Hartl W. Lucks, Adv. Mgr.; Asst. Pur. Agt. & Mgr. Pesticide Div.; Frank R. Schwartz, Jr., Research Eng. Plants also at: Indianapolis, Ind.; Holland & Saginaw, Mich.; Carey, Ohio. 100,000 tons. 1 rock mill; 1 mixing or manipulator mill; 5 bagging mills; 125 tons per hr.; 1 bulk mill; full Jeffrey & Columbus conveyor system.

DAYTON

C—The Miami Fertilizer Co.

Box 97, Dabel Branch; tel: (Xenia) 2-4467. C. R. Martin, Pres. & Pur. Agt.; Charles F. Martin, V.P., Sec. & Pur. Agt.; Glenn J. Noggle, Plant Mgr.; Clarence E. Crickmore, Prod. Mgr. 25,000 tons.

FINDLAY

CEGIJ—Naco-Thurston Fertilizer Co.—Div. W. R. Grace & Co.

P. O. Box 87; tel: 2630. (Main of: Joplin, Mo.) John R. Detgen, Mgr.; W. O. Mayfield, Supt.

FOSTORIA

C—Baugh & Sons Co. of Ohio

(Main of: Baltimore, Md.) S. R. Babylon, Mgr.

CJ—Ohio Farmers Grain & Supply Assn.

550 W. 4th St.; tel: 7768. Elmer Ohlemacher, Pres.; Alfred Eier, V.P.; S. E. Salisbury, Mgr.; Earl Neuman, Plant Mgr.; Chas. Pritchard, Pur. Agt. 15,000 tons. 1 Stedman mill, 1 ton; complete batch weigh hoppers & belt conveyors, Stedman.

GIBSONBURG

CDI—Gibsonburg Coal & Fertilizer Co.

W. Stone St.; Box 93; tel: 3993. D. D. Younker, Owner & Mgr. 5,000 tons. 1 mill; screw & flight conveyors.

GREENVILLE

C—Swift & Co.—Plant Food Div.

Box 138. (Main of: Chicago, Ill.) P. E. Nordaker, Mgr.

IRONTON

Nitrogen Div.—Allied Chemical & Dye Corp.

P. O. Box 98; tel: 8-4321. (Main ofc: New York, N. Y.) C. W. Bahrt, Jr., Mgr.

LOCKLAND

A—International Minerals & Chemical Corp.

Mail address: Lockland Sta. Cincinnati, Ohio. (Main ofc: Chicago, Ill.) Harold Douthitt, Area Mgr.; Robert L. Wright, Dist. Sales Mgr.; C. A. Willenbrink, Supt.

BE—Tennessee Corp.

(Main ofc: New York, N. Y.) L. J. Pettett, Gen. Mgr. 100,000 tons.

MARIETTA

CGIJ—American Liquid Fertilizer Co., Inc.

2nd St. at St. Clair; tel: 2511. Ernst Whitaker, Pres., Treas. & Pur. Mgr.; Andrew L. Roddy, Sec.; Herbert Warden, Plant Mgr.; Paul E. Neader, Prod. Mgr. 100,000 gal. liqd. fert. Rapids-Standard conveyor; Chrisholm-Moore Mansaver grab; Yale hoist for loading & unloading.

MARION

CD—Marion Plant Life Fertilizer Co.

West Center at Nye St. George H. Alber, Pres. & Pur. Agt.; John Lockstead, Plant Mgr. 18,000 tons. 1 mill, 25 tons per hr.; belt conveyors.

CG—"Na-Churs" Plant Food Co.

421 Monroe St.; tel: 2-1194. B. Peterson, Chmn. of Board; H. A. Petrich, Pres. & Pur. Agt.; T. L. Martin, V.P.; R. L. Morgan, Treas.; John D. House, Adv. Mgr.; R. A. Bagley, Sales Mgr.; P. A. Peterson, Prod. Mgr. 5,000 tons.

MARYSVILLE

C—O. M. Scott & Sons Co.

Tel: LD 66. C. B. Mills, Pres.; H. C. Doellinger, Prod. Mgr. 15,000 tons.

NAPOLEON

CFG—Midwest Plant Food, Inc.

P. O. Box 442. Wilbur H. Kleck, Pres.; Louis E. Frank, V.P., Plant Mgr. & Pur. Agt.; John A. Peiblow, Sec.-Treas. 20,000 tons. 1 mill; complete conveyor & hopper system.

NEW LEXINGTON

ADE—Nutritional Concentrates, Inc.

P. O. Box 309; tel: 1061-1062. C. H. Snyder, Pres.; E. W. Rebbeck, V.P.; Gordon L. Uhl, Sec.-Treas.; J. P. Hewston, Asst. Sec. & Asst. Treas.; M. D. Thompson, Plant Mgr.

OTTAWA

C—The Diamond Fertilizer Co.

(Main ofc: Sandusky, Ohio) Robert Simcox, Sales Mgr.; Mel Brinkman, Plant Mgr. 24,000 tons. Hopper system.

ST. BERNARD

(See Cincinnati)

SANDUSKY

A—Armour Fertilizer Works

(Main ofc: Atlanta, Ga.) R. G. Crammond, Div. Mgr.

AE—The Diamond Fertilizer Co.

1517 5th St.; P. O. Box 1561; tel: 750. W. J. Sprow, Pres.; H. C. Fisher, Exec. V.P. & Treas.; Howard K. Morgan, V.P., Sec. & Pur. Agt.; A. W. Sprow, V.P.; Thomas Hill, Plant Mgr. 50,000 tons. Plant also at Ottawa, Ohio.

SILICA

B—E. Rauh & Sons Fertilizer Co.

Mailing address: Sylvania, Ohio; tel: Sylvania 2-2003. (Main ofc: Indianapolis, Ind.) A. C. Pilikerd, Supt. 50,000 tons. 1 batching mill, 40-50 tons per hr.

TOLEDO

A—F. S. Royster Guano Co.

(Main ofc: Norfolk, Va.) Geo. G. Miller, Mgr. Sales Ofc.; Alex Cohen, Supt. 80,000 tons.

C—Toledo Div. Sewage Disposal

Bay View Park. A. H. Niles, Engr. Supt. 1,200 tons sewage sludge.

The Woodville Lime Products Co.

Office only. 2140 Jefferson Ave.; tel: MAin 1291. Geo. C. Urschel, Pres.; C. R. Rex, V.P. & Asst. Sec.; Henry Herkel, V.P.; K. U. Rex, Treas.; Julius M. Berns, Sec. Plant at Woodville, Ohio.

WASHINGTON C. H.

BF—The M. Hamm Co.

P. O. Box 68. V. R. McCoy, Pres. & Treas.; John E. Aills, V.P. & Pur. Agt.; David L. Baughn, Sec.; Reason J. Annon, Plant Mgr. 30,000 tons.

WEILERSVILLE

CF—Tyler Grain & Fertilizer Co.

Tel: 55 & 56. (Office at Wooster, Ohio) Donald Hartzler, Plant Mgr. 10,000 tons. 1 Stedman mill, 15 tons per hr.; 1 bulk bin conveyor; 1 tractor scoop.

WOODVILLE

CD—The Woodville Lime Products Co.

Plant & quarries. (Main ofc: Toledo, Ohio) 60,000 tons.

WOOSTER

Tyler Grain & Fertilizer Co.

619 Madison Ave. Walter T. Tyler, Pres., Treas. & Pur. Agt.; Portia Armstrong, Sec. Plant at Weilersville, Ohio.

WORTHINGTON

CDG—Fertile Corp. of America.

1028 Proprietors Rd. (Main ofc: New York, N. Y.) Maurice Ross, V.P. & Plant Mgr. 75,000 gal.

OKLAHOMA

BARTLESVILLE

B—Crawford Chemical Co., Inc.

West of City; Drawer 309; tel: 6205. C. C. Crawford, Pres.; Wm. A. Rigg, V.P.; J. D. Acree, Plant Mgr. & Pur. Agt. 20,000 tons. 2 mills; hopper system; conveyors; granulators; screens; automatic sackers.

C—Phillips Chemical Co.—Fertilizer Sales Div.

K. S. Adams, Chmn.; Paul Endacott, Pres.; T. L. Cabbage, V.P. & Gen. Mgr.; B. F. Stradley, Treas.; P. J. Parker, Sec.; L. H. Wright, Mgr. Fert. Sales Div.; R. G. Rhodes, Supt. Adams Terminal; J. B. Scott, Prod. Mgr., Adams Terminal; C. W. Forman, Supt. Cactus Plant; R. S. Ogilvie, Prod. Mgr. Cactus Plant; A. F. Legatski, Supt. Goldsmith Plant. District Offices: 6th Fl. WOW Bldg., Omaha 2, Nebr.; 610-612 Royster Bldg. Norfolk 10, Va.; 604 City Natl. Bank Bldg., Houston 2, Texas; First Natl. Bank Bldg., Amarillo, Texas; 7 Terrace Ofc. Bldg., Tampa 2, Fla.

CHICKASHA

C—Chickasha Cotton Oil Co.

Tel: 2300. L. Britain, Exec. V.P. & Gen. Mgr.; C. R. Van Valkenburgh, V.P.—Sales; E. V. Tyrrell, Pur. Agt.; D. King, Plant Mgr. 3,500 tons castor pomace.

MUSKOGEE

B—Consumers Coop. Assn.

Box 1605; tel: Murray 7-7584. (Main ofc: Kansas City, Mo.) John Smart, Supt.; A. R. Shelton, Plant Mgr. 55,000 tons. Hopper systems; belt conveyors; granulation equipment.

LeCOX

BD—Oklahoma Fertilizer & Chemical Co.

Frisco R.R. Spur. (Main ofc: Oklahoma City, Okla.) 40,000 tons.

OKLAHOMA CITY

Oklahoma Fertilizer & Chemical Co.

P. O. Box 2665 (Zone 8); tel: MEIrose 8-6354. Lester E. Cox, Chmn. of Board; Lynn E. Bussey, Pres.; Chas. T. Longaker, Exec. V.P.; Joseph M. Griffin, V.P.; Lester L. Cox, Sec.; George H. Stover, Treas. & Bus. Mgr.; Otto W. Clayton, Jr. Pur. Agt. Plant at LeCox, Okla.

TULSA

B—Nasco-Thurston Fertilizer Co.—

Div. W. R. Grace & Co. P. O. Box 9416; tel: 3-1585. (Main ofc: Joplin, Mo.) F. C. Moore, Supt.

OREGON

AMITY

EF—Burlingham-Meeker Lime Co.
Tel: 3471. Mell A. West, Plant Mgr. 10,000 tons agricultural limestone.

EUGENE

C—Eugene Chemical Works
P. O. Box 424. Tony Tosta, Ptnr. & Plant Mgr. 300 tons.

HILLSBORO

CD—Birds Eye-Snyder Div.—General Foods Corp.
Martin Senko, Plant Mgr.: W. O. Joos, Prod. Mgr. 4,000 tons.

KLAMATH FALLS

C—Simplot Soilbuilders of Klamath Falls—Div. J. R. Simplot Co.
Tel: 2-1438. (Main ofc: Pocatello, Idaho) Jack Barbour, Mgr.

MADRAS

C—Pacific Supply Cooperative—Chemical Div.
Box 216; tel: 2222. (Main ofc: Portland, Oreg.) Paul Barnes, Dist. Mgr.; Ted Freeman, Prod. Mgr. 7,000 tons.

MEDFORD

CDF—Southern Oregon Sales, Inc.
P. O. Box 1266; tel: 2-6244. Mrs. Marian Riegel, Pres.; Melvin J. Lattie, V.P.; Dunbar Carpenter, Sec.; J. F. Arnold, Treas.; S. M. Tuttle, Gen. Mgr.; Ronald M. James, Prod. Mgr., Pur. Agt. & Mgr. Pesticide Div. 50 tons. 1 mixing mill, 30 tons per day; small hopper system; fork lift trucks.

NORTH PORTLAND

C—Swift & Co.—Plant Food Div.
P. O. Box 38. (Main ofc: Chicago, Ill.) R. W. Finch, Mgr.

BI—Stauffer Chemical Co.

Pacific Northwest Div. Offices. P. O. Box 68; tel: UNiversity 3675. (Main ofc: San Francisco, Calif.) R. D. Eichmann, Ag. Chem. Sales Mgr.; Curtis T. Harper, Ind. Chem. Sales Mgr.; John B. Gay, Plant Supt. 1 50-in Raymond roller mill, 1 RD-12 Reitz mill; 6 belt conveyors; 4 screw conveyors; 4 Stephen-Adamson redlers; 2 1-ton ribbon blenders.

ONTARIO

A—Pacific Supply Cooperative—Chemical Div.
P. O. Box 180. (Main ofc: Portland, Oreg.) O. D. Dearborn, Plant Mgr. 1,500 tons.

CFJ—Valley Wholesale & Warehouse Co.

149 S. E. 1st St. Ed Oakes, Pres.; D. W. Powers, Sr., Sec.-Treas. & Pur. Agt.; W. M. Murphy, Prod. Mgr. 6,000 tons. 1 mill, 30 tons daily.

OSWEGO

CF—Oregon Portland Cement Co.
P. O. Box 567. (Office: Portland, Oreg.) Melvin F. Munch, Supt.; H. R. Shipley, Plant Mgr. 75,000 tons.

PORTLAND

AEIJ—Pacific Supply Cooperative—Chemical Div.

1928 N.W. Vaughn St.; P. O. Box 3819; tel: BRoadway 6621. Charles Baker, Sec. & Gen. Mgr.; W. B. Harris, Treas.; Karl Baur, Plant Mgr. & Mgr. Pesticide Div.; L. R. Lusk, Prod. Mgr.; R. W. Duncan, Jr., Pur. Agt. 10,000 tons. Plants also at: Madras & Ontario, Oreg.

CDFI—Fortified Farm Products Co.

1835 S.W. Jefferson St. Don Parker, Pres. & Mgr. Pesticide Div.; Robt. P. Winchester, Plant Mgr. 10,000 tons.

CI—Miller Products Co.

Foot S.W. Caruthers; tel: ATwater 7608. Roy E. Miller, Pres. & Gen. Mgr.; Irl L. Olmsted, V.P.; G. G. Jarrett, Treas. & Pur. Agt.; A. Bjornson, Sec.; Frank B. Stewart, Asst. Gen. Mgr. Blending mills, 4 tons per hr.; Sturdevant type ribbon blenders; pulverizing mills 2 to 10 tons per hr.; screw & belt conveyors.

Oregon Portland Cement Co.

Office only. 111 S.E. Madison St. Frank E. McCaslin, Pres.; D. H. Leche, V.P.; H. P. Davidson, Treas.; Lee Parsons, Sec. Plant at Oswego, Oreg.

CJ—Oregon-Washington Fertilizer Co.

2011 N.W. York St. (Main ofc: Seattle, Wash.) Wm. Chorlton, Plant Mgr. 20,000 tons.

C—Webfoot Fertilizer Co., Inc.

202 S.E. Stark St.; tel: EAsT 5189. F. E. Peterson, Pres.; Maude Peterson, V.P.; Alec. Runciman, Sec.-Treas. 15,000 tons.

C—White Star Concentrates Co.

1722 N.W. 15th Ave. (Zone 9); tel: BEacon 0560. Robert A. Seufert, Owner & Pur. Agt.; Wm. H. Miller, Plant Mgr. 1,000 tons.

CI—Wilbur-Ellis Co.

(Main ofc: Los Angeles, Calif.) John Stevens, Plant Mgr.; C. E. Beckwith, Prod. Mgr. 5,000 tons.

REDMOND

CI—Midstate Fertilizer Co.

Drawer 401; tel: 78. Fred Hodecker & Willetta Hodecker, Ptnrs.: Mike Locey, Plant Mgr. 10,000 tons.

SALEM

CJ—Meeker-Hughes, Co., Inc.

520 Trade St.; P. O. Box 527; tel: 3-7822. J. Ross Hughes, Pres., Pur. Agt. & Mgr. Pesticide Div.; P. E. Meeker, V.P.; Frank A. Meeker, Sec.-Treas. & Pur. Agt.; R. E.

Blackman, Plant Mgr. 10,000 tons. 2 mills; dry blending plant; continuous ammoniation & granulation system.

WARRENTON

CG—Bioproducts, Oregon, Ltd.

R. T. Carruthers, Pres.; J. P. Trullinger, Sec.-Treas.; Harold Carrington, Plant Mgr. 3,000 tons. 1 mill; various conveyors & hoppers.

WOODBURN

CGJ—Woodburn Feed & Supply Co.
868 N. Front St.; tel: 2-1121. F. W. Burlingham, Pres.; L. H. Hildebrandt, Plant Mgr.; Harold Yoder, Mgr. Pesticide Div. 2,000 tons. 1 mill, 20 tons per shift; bucket elevators.

PENNSYLVANIA

ALLENTOWN

C—Robert B. Peters Co.

739 N. 7th St.; tel: Hemlock 2-8193. Roberts B. Peters, Prop. 500 tons. 1 mill, 1 ton per hr.

CFJ—Robert A. Reichard, Inc.

19th & W. Lawrence Sts.; tel: HE 4-7107. Clarence A. Reichard, Pres., Pur. Agt. & Mgr. Pesticide Div.; Howard E. Reichard, V.P.; Eugene A. Reichard, Treas. & Plant Mgr.; Herbert E. Krock, Sec. 20,000 tons. 3 mills, 20 tons each; 3 belt conveyors; 1 hopper.

AMBLER

CGI—American Chemical Paint Co.

Leon Cherksey, Pres.; G. C. Romig, V.P.; W. Graham Smith, Plant Mgr.; E. A. Snyder, Pur. Agt.; Joseph H. Torchiera, Ag. Chem. Div. Soluble plant food for home garden trade only.

BUTLER

CJ—Central Chemical Corp.

(Main ofc: Hagerstown, Md.) W. L. Murrin, Plant Mgr. & Mgr. Pesticide Div. 15,000 tons. 3 mills; hopper system.

CARLISLE

CD—Adco Works

333 W. High St.; tel: 371. Dr. F. M. Lawrence, Dir.; L. M. Lawrence, V.P.; H. M. Brame, Sec.-Treas. 1 mill, 5 tons per day.

CDF—Carlisle Fertilizer Works, Inc.

P. O. Sunday, Pres. & Pur. Agt.; H. S. Roop, Sec.-Treas.; Roy Warner, Plant Mgr. 2,000 tons.

CHESTER

Medford's, Inc.

18-40 W. 2nd St.

COATESVILLE

CHJ—Koller Fertilizer Co.

(Main ofc: York, Pa.) T. H. Koller, Ptnr. & Pur. Agt. 10,000 tons.

DU BOIS

CI—Swack Fertilizer Co.
P. O. Box 26; tel: 1260. John T. Swack, Pres. & Pur. Agt.; Robert A. Swack, V.P., Treas., Prod. Mgr. & Mgr. Pesticides Div.; M. E. Hubbs, Sec.; Paul A. Snedden, Supt. 10,000 tons. 1 mixer, 2 ton; 4 belt conveyors; 2 bagging units; crusher; 3 Hough Payloaders; car spotter; 3 bucket elevators; complete pesticide formulating unit.

DRUMORE

Keystone Grange Exchange

ELIZABETHTOWN

CF—Farmers' Fertilizer Works
365 Bainbridge St.; tel: 11. J. H. Buch, Pres.; J. K. Garman, V.P.; W. G. Hawthorne, Treas. & Gen. Mgr.; J. W. Staman, Sec.; W. B. Schneitman, Asst. Sec. 8,000 tons.

EPHRATA

C—Lancaster Bone Fertilizer Co.
(Main ofc: Quarryville, Pa.) 20, 000 tons.

ERIE

C—The Erie Reduction Co.
A. B. Dickman, Pres.; D. E. Shields, V.P.; P. J. Shields, Treas.; B. M. Whiteley, Sec. 3,500 tons.
Schaffner Bros. Co.
641 E. 15th St.

ESPY

Fred E. Lord, Inc.
Fred E. Lord, Pres.; D. W. Whitmore, V.P.; Alvin Stauffer, Sec.-Treas.

EVERETT

CJ—Central Chemical Corp.
Tel: 99. (Main ofc: Hagerstown, Md.) Geo. Cassel, Sales Mgr. & Mgr. Pesticide Div.; Simon J. Pile, Plant Mgr. 2 mills.

GETTYSBURG

CFJ—General Chemical Corp.
Tel: 514. (Main ofc: Hagerstown, Md.) Donald R. White, Supt. & Mgr. Pesticide Div.; C. E. Oyler, Prod. Mgr. 8,000 tons. 1 mill.

GLEN ROCK (Seltzland)

CF—Koller Fertilizer Co., Inc.
(Main ofc: York, Pa.) Franklin McCleary, Plant Mgr. 9,000 tons. 2 mills. 1 cage & 1 swing hammer; 50 tons daily; elevators; conveyors.

HANOVER

CGHI—Miller Chemical & Fertilizer Corp.
Tel: 3-0197. (Main ofc: Baltimore, Md.) A. G. Fischer, Plant Mgr. 15,000 tons. Belt conveyors; hopper system.

HARRISBURG

Pennsylvania Farm Bureau Cooperative Assn.
3609 Derry St.; tel: 4-0181. General offices only: Leon B. Epler, Pres.; Nelson L. Fisher, V.P.; L. A. Thomas, Jr., Treas.; Mark Hess, Sec.; H. A. Hannemann, Mgr. Pesticide Div.; O. P. Bernhardt, Jr., Plant Mgr. Plant at Curtis Bay, Md.

KINGSTON

CI—The DeWitt Chemical Co.
303 Market St. H. C. Jeter, Pres.; F. E. Parkhurst, III, Treas.; A. D. Smith, V.P. & Asst. Treas.; J. L. McDonald, Sec. Formulate liq. fert. & pesticides from basic materials.

KITTANNING

CGIJ—Eastern States Farmers' Exchange, Inc.
P. O. Box 207; tel: 42-3101. (Main ofc: W. Springfield, Mass.) J. R. Myers (York, Pa.), Mgr. Fert. Prod.; C. H. Kelso, Plant Mgr. 25,000 tons. 1 mixing unit, 2 shipping units; belt conveyors for bulk & bagged goods; trucks, tractors & power shovels.

LANCASTER

CFIJ—Organic Plant Food Co.
Grofftown Rd.; P. O. Box 132; tel: 2-4963. Norman B. Brubaker, Pres., Plant Mgr. & Pur. Agt.; J. Robert Leibley, Treas. & Prod. Mgr.; Mary B. Brubaker, Sec. 3-4,000 tons.

LEBANON

CI—Lebanon Chemical Corp.
Tel: 3-1687. Vernon Bishop, Pres.; Arthur M. Mohler, Mgr.

CFGHI—Olin Mathieson Chemical Corp.—Agricultural Chemicals Div.
Tel: 2-2671. (Main ofc: Little Rock, Ark.) F. J. McQuade, Mgr.; Mary J. Kleiser, Ofc. Mgr.; A. P. Ream, Plant Mgr.

McKEESPORT

CGIJ—The Summers Fertilizer Co., Inc.—KAPCO Div.
603 Walnut St.; tel: 2-0337. (Main ofc: Baltimore, Md.) Philip P. Rosette, Mgr.; Lloyd W. McGough, Asst. Mgr.; James A. Wargo, Plant Supt. 4,000 tons.

MILTON

CJ—Central Chemical Corp.
303 Railroad Ave.; tel: 344. (Main ofc: Hagerstown, Md.) Chester G. James, Plant Mgr. & Mgr. Pesticide Div. 20,000 tons. 2 mills.

OXFORD

Lancaster Bone Fertilizer Co.
(Main ofc: Quarryville, Pa.) H. W. Huffnagle, Mgr.

PARADISE

CFI—Amos Eby & Co.

S. Clayton Ranck, Ptnr.; Robert E. Ranck, Ptnr.; Milton Hershey, Plant Mgr. 10,000 tons.

PHILADELPHIA

B—Baugh & Sons Co.
Office: 20 S. Delaware Ave.; Plant 1701 S. Delaware Ave. (Main ofc: Baltimore, Md.) N. C. Harrington, Div. Sales Mgr.; C. S. Clarkson, Plant Supt.

CF—Independent Manufacturing Co.
H. J. Smith, Ptnr. & Pur. Agt.; R. E. Smith, Ptnr.; Thacher Foss, Plant Mgr.; H. J. Smith, Prod. Mgr. 30,000 tons. 4 mills, 45,000 tons; belt conveyors from mixer to bins & from bagger to cars & trucks.

Penn Fruit Co., Inc.
1500 E. Erie Ave.

C—M. L. Shoemaker Co.
Delaware Ave. & Venango St. R. O. Fisher, Supt. 8,000 tons.

CF—F. W. Tunnell & Co., Inc.
15 N. 15th St. F. H. Tunnell, Pres.; B. A. Tunnell, V.P.; Ira C. Young, Treas.; D. S. Tunnell, Sec.; E. N. Angus, Plant Mgr.; A. E. Horner, Prod. Mgr.; R. E. Deal, Pur. Agt. 40,000 tons.

PITTSBURGH

United States Steel Corp.
General offices only: 525 William Penn Pl. (Zone 30). Coal Chemical Sales Div. C. W. Baldwin, Gen. Mgr.; J. W. Clinton, Asst. Gen. Mgr.; W. E. Nordquist, Product Mgr.—ammonium sulphate. Ammonium sulphate producing plants at: Fairfield, Ala.; Joliet, Ill.; Gary, Ind.; Duluth, Minn.; Cleveland, & Lorain, Ohio; Clairton & Fairless, Pa.; Geneva & Ironton, Utah. Sales ofcs: Fairfield, Ala.; San Francisco, Calif.; Chicago, Ill.; New York, N. Y.; Cleveland, Ohio; Pittsburgh, Pa.

QUARRYVILLE

CFJ—Lancaster Bone & Fertilizer Co., Inc.
General offices. H. W. Huffnagle, Pres. & Pur. Agt.; M. B. Huffnagle, V.P.; S. E. Glisson, Treas.-Sec. Plants: Quarryville, Ephrata & Oxford, Pa. Total 20,000 tons.

READING

CDFJ—Reading Bone Fertilizer Co.
P. O. Box 232; tel: 4-1602. A. A. Schultz, Pres., Mgr. Pesticide Div. & Pur. Agt.; W. A. Schultz, V.P. & Plant Mgr.; Allen Willits, Sec.-Treas. 15,000 tons. 1 mill.

SHARON

Roux Feed Mills
J. B. Roux, Pres.; J. B. Roux, Jr., V.P. & Treas.; L. F. Roux, Sec. 1,000-1,500 tons.

SHIPPENSBURG

CEFJ—Cumberland Valley Cooperative Assn.

Box K.; tel: 51. Walter C. Nickles, Treas.; Floyd M. Mains, Pur. Agt. 3,500 tons. 1 mill; 1 conveyor belt.

SILVER SPRING

Lloyd W. Nolt

SOMERSET

CFI—A. D. Graham & Co., Inc.

A. D. Graham, Pres. & Mgr.; M. Elizabeth Graham, Sec.-Treas. 10,000 tons. 2 mills; mixer, 30 tons per hr.; bagger, 35 tons per hr.; complete conveyor system for both bulk & bagged goods.

UNION CITY

CFGHJ—G.L.F. Soil Building Service—Div. Coop. G.L.F. Exchange

(Main ofc: Utica, N. Y.) J. C. Crissey (Utica, N. Y.), Div. Mgr.; E. J. Smith, Prod. Mgr.; James H. Starr, Plant Mgr. 25,000 tons. 2 mills; complete hopper & conveyor system.

UPPER DARBY

Paul J. Devitt

69th & Market Sts.

YORK

CDGJ—Eastern States Farmers' Exchange, Inc.

Fertilizer Production Div. headquarters. P. O. Box 29. (Main ofc: West Springfield, Mass.) Quentin Reynolds (West Springfield, Mass.), Gen. Mgr.; J. Raymond Myers, Mgr. Fert. Prod. Div. & Pur. Agt.; C. F. Grimm, Plant Mgr. 30,000 tons. 1 mixing unit; 2 shipping units; belt conveyors; trucks & tractors; power shovels. Plants also at: Wilmington, Del.; N. Cambridge, Mass.; & Kittanning, Pa.

Koller Fertilizer Co., Inc.

Office only. Room 50, Hartman Bldg.; tel: 3-5440. Plants at Coatesville & Glen Rock, Pa.

CDF—York Stone & Supply Co.

Roosevelt Ave. Extd.; tel: 7357. George L. Cramer, Pres. & Pur. Agt.; Frederick W. Cramer, V.P.; Amos Raffensberger, Sec.-Treas.; Raymond S. Ott, Plant Mgr. 30,000 tons. 1 Sturdevant mill, 1 ton; 5 Link-Belt & 2 Farquhar conveyers; 2 St. Regis valve packers.

RHODE ISLAND

EAST PROVIDENCE

Fox Point Chemical Co.

Office: 49 Valley St.; tel: 1-3684. L. M. Weyker, Pres.; A. J. LaPrise, V.P.; T. J. Whelan, Treas. & Plant Mgr. Plant at Fox Point, R. I.

FOX POINT

CF—Fox Point Chemical Co.

(Ofc: E. Providence, R. I.) T. J. Whelan, Treas. & Plant Mgr. 20,000 tons.

SOUTH CAROLINA

AIKEN

C—Aiken Fertilizer Co.

P. O. Box 504. Mrs. Rosa F. Prothro, Owner; W. D. Gregorie, Jr., Mgr.; D. B. Arthur, Plant Mgr.; J. D. Prothro, Pur. Agt. 2,000 tons.

ALLEDALE

CF—Allendale Fertilizer Co.

J. V. Spigener, Sr., V.P. 1,000 tons.

ANDERSON

AF—Anderson Fertilizer Co., Inc.

102½ N. McDuffie St.; P. O. Box 138; tel: Canal 4-3501. George W. Gage, Pres. & Gen. Mgr.; A. B. Jackson, V.P.; W. H. Farmer, Treas.; B. D. Smith, Sec.; E. U. Campbell, Plant Engr. 30,000 tons. 1 mill; automatic hopper equipped with overhead belt.

CE—McLees Fertilizer Co.

500 S. Murray; tel: Canal 5-5621. F. C. McLees, Pres. Treas. & Mgr.; Katherine H. McLees, V.P. & Sec. 5,000 tons. 1 mill; 1 belt conveyor.

ANGELUS

CDEIJ—J. M. Jordan

J. M. Jordan, Owner & Mgr. 6-800 tons. 1 mill.

BATESBURG

C—Batesburg Fertilizer Co.

A. C. Jones, Jr., Pres. & Treas.; Josephine Jones Stoddard, V.P.; Wm. Cook, Sec.; A. C. Jones, Plant Mgr. 10,000 tons.

BLACKVILLE

CDE—Brown Fertilizer Co., Inc.

Tel: 2121 & 2131. D. Stanley Brown, Pres.; Herman Brown, Sec.-Treas. 8,500 tons. 2 mills.

CAYCE

A—The American Agricultural Chemical Co.

P. O. Box 69 (Columbia, S. C.). (Main ofc: New York, N. Y.) C. I. Mothershead (Columbia, S. C.), Mgr.; G. E. Richardson, Supt.

CHARLESTON

A—The American Agricultural Chemical Co.

P. O. Box 834. (Main ofc: New York, N. Y.) E. L. Ready, Jr., Mgr.; J. B. Alley, Supt.

Carolina Phosphate Products Co.

W. A. Hutchinson, Pres. & Treas.; Bruce E. Taylor, Sec. 30,000 tons.

C—Etiwan Fertilizer Co.

Tel: 2-2878, 2-4616 & 3-0561. W. R. Sullivan, Pres.; James G. Gibbs, V.P.; H. S. Means, Sec.; Elias Ball, Treas.; J. H. Kelly, Supt. 25,000 tons. 2 mills, 240 tons per day;

hopper system; belt conveyors throughout.

C—Logan-Robinson Fertilizer Co.

502 Peoples Bldg.; tel: 2-2031. W. Hampton Logan, Sr., Pres.; W. Hampton Logan, Jr., V.P.; W. Allan Moore, Jr., Treas.; J. C. McManus, Sec.; E. W. Weekly, Supt. 30,000 tons.

C—Maybank Fertilizer Corp.

Box 847; tel: 2-2871. David Maybank, Pres.; John E. F. Maybank, V.P.; Augustus T. Curtis, Gen. Mgr. Treas. & Pur. Agt.; S. Mortimer Clement, Sec.; Wm. R. Webb, Supt. 30,000 tons.

CI—Molony Fertilizer Co.

Tel: 4-5356. John C. Molony, Pres.; John H. Schachte, V.P.; R. D. Molony, Supt. 30,000 tons. 2 mills, 500 tons daily; hopper system; complete belt conveyor system for bulk & bagged materials.

Naco-Thurston Fertilizer Co.—Div. W. R. Grace & Co.

P. O. Box 858; tel: 2-3321. (Main ofc: Joplin, Mo.) T. N. Roberts, Jr., Mgr.; W. N. Brinson, Supt.

A—Planters Fertilizer & Phosphate Co.

King St. Ext.; Box 865; tel: 3-7267. J. Ross Hanahan, Pres.; J. R. Hanahan, Jr., V.P.; W. O. Hanahan, V.P., Pur. Agt. & Sales Mgr.; Walter B. Meets, Treas.; J. S. Manahan, Sec.; W. A. Speer, Plant Mgr. 100,000 tons. 3 mills; hoppers; conveyors; Hough loaders; mixers; pumps; Glen Falls burners. Plant also at Charlotte, N. C.

AG—A. F. Pringle & Co., Inc.

P. O. Box 904; 141 E. Bay St.; tel: 2-8366 & LD909. Ashmead F. Pringle, Jr., Pres.; L. L. Oliveros, V.P., Treas. & Pur. Agt.; C. L. Paul, Sec. & Prod. Mgr.; J. H. Wragge, Supt. & Plant Mgr. 150,000 tons.

A—F. S. Royster Guano Co.

(Main ofc: Norfolk, Va.) P. L. Steele, Supt. (Sales ofc: Columbia, S. C.; Louis Smith, Mgr.) 40,000 tons.

C—Southern Fertilizer & Chemical Co.

(Main ofc: Savannah, Ga.) A. D. Brent, V.P. & Prod. Mgr.; E. H. Tilton, Mgr.; W. H. Hackney, Supt. 15-20,000 tons.

A—Virginia-Carolina Chemical Corp.

Tel: 4-6227 & 4-6228. (Main ofc: Richmond, Va.) Also Chemicals Div. plant.

CHESTER

CFJ—Victor Fertilizer Co.

P. O. Box 324; tel: 3117 & LD 3118. R. A. Oliphant, Mgr. & Pur. Agt.; J. W. Bond, Jr., Supt.; Lex Wilkes, Ofc. Mgr. 25,000 tons.

CHERAW

C—Burr Gin & Fertilizer Co.

Tel: 5341. John A. Burr, Mgr. & Pur. Agt.; Robert C. Burr, Plant

Mgr. 3,000 tons.

COLUMBIA

C—Armour Fertilizer Works
(Main ofc: Atlanta, Ga.) P. J. Zeigler, Div. Mgr.

The Southern Cotton Oil Co.
P. O. Box 840; tel: 2-1903. (Main ofc: New Orleans, La.) G. L. Hooks, Jr., Mgr. Dist. ofc. for mfg. & Sales at: Charlotte, Davidson, Gibson, Monroe, Shelby & Wadesboro, N. C.; Abbeville, Bennettsville, Darlington, Dillon, Florence, Greenville, Laurens, Newberry, Honea Path, Orangeburg, Spartanburg & Sumter, S. C.

C—Swift & Co.—Plant Food Div.
Box 5285, Five Points Branch. (Main ofc: Chicago, Ill.) E. H. Rappe, Mgr.

DENMARK

C—Denmark Fertilizer Co.
J. B. Guess, Jr., Pres. & Pur. Agt.; J. W. Williamson (Norway, S. C.), Ptnr.; T. Conner Guess, Plant Mgr. 2,000 tons.

FAIRFAX

C—Carolina Mixing Co.
A. M. Marshall, Owner. 2,000 tons.

FLORENCE

CF—The Southern Cotton Oil Co.
Tel: 8224. (Main ofc: New Orleans, La.) W. B. Nickles, Mgr.

FOUNTAIN INN

CJ—Rabb & Smith, Inc.
Walter H. Smith, Pres. & Prod. Mgr.; J. T. Brooks, Jr., Plant Mgr. 1,500 tons.

GAFFNEY

CDJ—Keys Sanders Fertilizer Co.
P. O. Box 539; tel: 6364. Mrs. Margaret T. Sanders, Pres. & Treas.; Mrs. Eleanor S. Day, V.P. & Sec.; C. F. Blackwell, Plant Mgr. 6,000 tons.

GRAMLING

CDEFG—Gramling Merco Co., Inc.
Henry Gramling, Pres. & Pur. Agt.; A. F. Pringle, V.P.; L. L. Oliveros, Sec.-Treas.; Boyd Harmon, Asst. Treas. & Prod. Mgr.; Cecil Harris, Plant Mgr. 6,000 tons. 1 mill; belt conveyors; Payloaders.

C—Mills Fertilizer Co.

M. E. Mills, Owner

GREELEYVILLE

C—Santee Guano Co.
L. G. Mishoe, Owner & Operator. J. R. Mishoe, Plant Mgr. 4,000 tons. 1 mill; 1-ton hoppers.

GREENVILLE

CD—Independent Guano Corp.
213 E. Court St. S. Avery Smith, Pres. & Treas.; Ida W. Smith, Sec.; W. J. Long, Plant Mgr. 2,000 tons. 1 mill; 1 Cone mixer.

A—Virginia-Carolina Chemical Corp.
Tel: 3-7453. (Main ofc: Richmond, Va.)

GREENWOOD

CF—Piedmont Fertilizer Corp.
P. O. Box 946. C. Y. Thomason, Pres.; W. N. Henderson, Jr., Plant Mgr. 3,000 tons.

GREER

C—Dobson Guano Co.
Rte. 1. L. M. Dobson, Mgr. 3,000 tons.

CJ—Greer Guano Co.

104 S. Line St.; tel: 128. E. D. Tillotson, Ptnr., Plant Mgr. & Pur. Agt.; A. B. Coggins, Ptnr. & Prod. Mgr. 3,000 tons. 1 mill.

HARTSVILLE

B—International Minerals & Chemical Corp.

(Main ofc: Chicago, Ill.) F. W. Atkinson, Area Mgr.; J. C. Calhoun, Dist. Sales Mgr.; P. L. Webb, Supt.

HEMMINGWAY

C—Coastal Fertilizer Co.
Tel: 3693 & 3344. R. L. Cox, Owner & Mgr. 1,500 tons. 1 mill.

HOLLY HILL

C—Holly Hill Fertilizer Co.
S. J. McCoy, Pres.; B. R. Bennett, V.P.; D. M. Avinger, Sec.-Treas. & Mgr.; L. A. Martin, Supt. 15,000 tons.

JEFFERSON

CFG—Miller Fertilizer Co.
J. C. Miller, J. C. Miller, Jr., J. F. Miller, Ptnrs. 5,000 tons.

JOHNSTON

CFJ—Ridge Fertilizer Co.
Tel: 2507. W. C. Cassels, Pres. & Pur. Agt.; D. G. Cassels, V.P.; Melvin Stokes, Plant Mgr. 15,000 tons.

KERSHAW

C—Kershaw Oil Mill
H. L. McPherson, Pres. & Pur. Agt.; Jno. S. Davidson, Sec.; Fred E. Culvern, V.P.; T. V. Hough, Treas.; Edna S. Stevens, V.P. 6,000 tons. 1 mill, 30 tons per hr.; belt conveyors; hopper system.

LAKE CITY

Singletary Fertilizer Co.
W. Wesley Singletary, Pres.; Wesley J. Singletary, V.P. & Gen. Mgr.; Paul S. Singletary, Treas.

LANCASTER

BDF—Catawba Fertilizer Co.
W. G. Taylor, Pres. & Prod. Mgr.; Edna S. Stevens, V.P.; R. P. Resch, Treas.; J. W. Medford, Sec.; E. C. Beckham, Plant Mgr. 25,000 tons.

LATTA

CHI—D. M. Dew & Sons, Inc.

D. M. Dew, Jr., Pres. & Treas.; Leslie Whittington, Plant Mgr. 3,000 tons.

C—Manning & Shine

Tel: 4861. L. A. Manning, Jr., Ptnr. & Pur. Agt.; D. B. Shine, Ptnr.; L. R. Bethea, Plant Mgr. 3,000 tons. 1 mixer, 50 tons daily.

LAURENS

CF—The Southern Cotton Oil Co.
P. O. Box 258. (Main ofc: New Orleans, La.) L. H. Taylor, Sr., Mgr.

LEESVILLE

C—Epting Distributing Co.
Tel: 2461. J. H. Epting, Owner; J. N. Davis, Supt. 5,000 tons. 1 mill; Payloader; bulk stacking conveyor.

LYNCHBURG

CJ—Lynchburg Fertilizer Co.
P. O. Box 206; tel: 3311. C. A. Vincent, Pres. & Pur. Agt.; Howard F. Vincent, Plant Mgr.; Mrs. R. G. Vassy, Mgr.; R. G. Vassy, Mgr. Pesticide Div. 2,500 tons. 1 mill, ¼ ton.

MARION

CDJ—Marion Cotton Oil Co.
Tel: 104. H. L. McPherson, Pres.; Fred E. Culvern & Edna S. Stevens, V.P.'s; Wilson W. Snipes, Mgr.; T. V. Hough, Treas.; John Davidson, Sec.; Roy Peebles, Plant Mgr. 1,000 tons. 1 mill, 1 ton.

MULLINS

CEFI—Home Guano Co.—Div. John Cooper Stores, Inc.
Tel: 2916. John P. Cooper, Pres.; Franklin B. Cooper, V.P.; N. Bryant Cooper, Sec., Mgr., Pur. Agt. & Mgr. Pesticide Div.; Frank Johnson, Plant Mgr. 10,000 tons. 1 ½-ton Atlanta Utility fertilizer mill; 1 300-lb. Young insecticide mixer; overhead conveyors for all materials; self-built hopper system.

NORTH

C—J. E. Culler Fertilizer Co.
J. E. Culler, Owner; Warren Hutto, Plant Mgr. 4,000 tons. 1 mill, 100 tons per 10 hrs.

OSWEGO

Woodrow Fertilizer Co.
R. V. Segars, Owner.

PAMPLICO

CJ—Coleman Guano Co.
Buster Coleman, Mgr.; M. C. Coleman, Gen. Mgr. & Mgr. Pesticide Div. 4,000 tons.

C—Pamplico Fertilizer Co., Inc.
J. E. Bostick, Pres.; Robert W. Coleman, V.P.; G. D. Cox, Sec.-Treas. & Plant Mgr. 5-6,000 tons.

PENDLETON

CFJ—Pendleton Oil Mill, Inc.

Tel: 4401. E. N. Sitton, Pres. & Treas.; Aug. J. Sitton, V.P. & Sec.; R. W. Parker, Supt. 5,000 tons. 1 mill; 10,000 annual tons (operate at 60-70%); Inglett & Corley hopper system to mixer to belt conveyor to storage.

RIDGEWAY

CF—Chas. P. Wray & Co.

J. S. Edmunds, Owner & Pur. Agt.; J. P. Hollis, Plant Mgr. 3,000 tons. 1 mill.

ROEBUCK

C—Southern Fertilizer & Chemical Co.

(Main ofc: Savannah, Ga.) J. P. Huckaby, Plant Mgr.; Herbert Respass, Jr., Prod. Mgr. 7,500 to 10,000 tons.

ST. GEORGE

CJ—Dorchester Cotton Oil Co.

Tel: 3042. W. T. Brown, Pres. & Mgr. 4,000 tons.

ST. MATTHEWS

CFGHJ—Banks Fertilizer Co.

Tel: 5411. D. H. Banks, Sr. (Plant Mgr. & Pur. Agt.) R. W. Banks (Prod. Mgr.), J. A. Banks & D. H. Banks, Jr., Ptnrs. 3,000 tons. 1 mill, 15 tons per hr.

C—Eastover Fertilizer Co.

A. S. Smoke, Pres. & Sec.; W. G. Smoke, Treas. 3,500 tons.

SALLEY

CJ—Salley Gin & Fertilizer Co.

Tel: 811. L. A. McMillian, Mgr. & Pur. Agt. 1,500 tons.

SENECA

C—W. P. Nimmons & Co.

Tel: 614. W. P. Nimmons, Mgr. 2-3,000 tons.

SPARTANBURG

C—The American Agricultural Chemical Co.

P. O. Box 890, (Main ofc: New York, N. Y.) Jack Rogers, Mgr.; J. E. Martin, Supt.

C—Caldwell's, Inc.

Jas. B. Caldwell, Jr., Pres.; Ralph M. Caldwell, Sec.-Treas.; F. L. Lassiter, Plant Supt. 4,000 tons. 1 mill; belt conveyor.

A—International Minerals & Chemical Corp.

(Main ofc: Chicago, Ill.) A. L. Foster, Supt.

CI—Naco-Thurston Fertilizer Co.—Div. W. R. Grace & Co.

P. O. Box 1128; tel: 3-8550. (Main ofc: Joplin, Mo.) T. N. Roberts, Jr. (Charleston, S. C.), Mgr.; O. M. Hamby, Supt.

C—F. S. Royster Guano Co.

(Main ofc: Norfolk, Va.) E. H. Wood, Supt. Sales Ofc. (Columbia, S. C.); Louis Smith, Mgr. 20,000 tons.

CF—The Southern Cotton Oil Co.

P. O. Box 252. (Main ofc: New Orleans, La.) H. B. Lipscomb, Mgr.

SUMTER

C—W. B. Boyle Co.

J. P. Booth, Jr., Pres.; S. Marvin Brown, Mgr. 4,000 tons.

C—Sumter Fertilizer Manufacturing Co., Inc.

P. O. Box 1086; tel: SP 3-9364. J. A. McKnight, Pres.; W. O. Hanahan, V.P.; J. Ross Hanahan, Treas.; J. S. Hanahan, Sec.; H. N. Wright, Mgr. & Pur. Agt.; Louis Driggers, Supt. 10,000 tons.

TIMMONSVILLE

CG—Anderson Guano Co.

Box 398; tel: 5861. Mrs. Mary Q. Hawkins, Owner; F. E. Sansbury, Plant Mgr. 5,000 tons. 1 mill; 1 conveyor for basing down in bulk.

UNION

CHJ—Union Oil Mills

Tel: 13. N. R. Fowler, Pres. & Pur. Agt.; A. G. Kennedy, V.P.; Hattie Kennedy Fowler, Treas.-Sec.; M. Curtis Dunbar, Plant Mgr. 3,500 tons.

WAGENER

C—J. A. Tyler & Sons

Tel: 4681. J. E. Tyler, Pres.; John A. Tyler, Jr., Sec.-Treas.; A. E. McCord, Supt. 2,500 tons.

WALHALLA

CDJ—J. E. Bauknight, Jr.

Box 145. J. E. Bauknight, Jr., Owner; Robert Dilworth, Plant Mgr. 5,000 tons.

WESTMINSTER

CFJ—Westminster Gin & Fertilizer Co.

J. E. Marett, Pres.; E. C. Marett, Sec.-Treas. & Mgr. 2,000 tons. 1 mill.

WILLISTON

CD—Smith Fertilizer Co.

Tel: 4561. Winchester Smith, Pres., Treas., & Pur. Agt.; Norman M. Smith, II, V.P. & Plant Mgr.; Mrs. Carrie M. Bell, Sec. 2,000 tons. 1 mill.

CD—Williston Fertilizer Works

Box 335; tel: 4433. Q. A. Kennedy, Jr., Owner. 2,000 tons. 1 mill.

SOUTH DAKOTA

RAPID CITY

CDJ—Tri-State Milling Co.

426 Omaha St.; tel: Filmore 2-6172. Chet Smith, Mgr. Ag. Chem. Div.

SIOUX FALLS

C—The Summers Fertilizer Co., Inc.

Tel: 4-5643. (Main ofc: Baltimore, Md.) W. A. Stolt, Mgr.; A. J.

Klaverkamp, Asst. Mgr. 25,000 tons.

YANKTON

Gurney Seed & Nursery Co.

TENNESSEE

CHATTANOOGA

B—A. D. Adair & McCarty Bros., Inc.

(Chickamauga Fertilizer Works.) Shipping point: Tyner, Tenn. (Main ofc: Atlanta, Ga.) Geo. Masters, Supt. 20,000 tons.

CLARKSVILLE

C—International Minerals & Chemical Corp.

Hwy. 41-A, North. (Main ofc: Chicago, Ill.) James H. Sibley, Dist. Sales Mgr.; J. H. Whitesides, Supt.

BCFG—Tennessee Plant Food Co.—Div. Soil Builders, Inc.

Red River St.; P. O. Box 61. B. C. Milner, Jr., V.P. & Pur. Agt.; H. W. Short, Gen. Mgr., Prod. Mgr. & Pur. Agt.; Robert L. Weakley, Plant Mgr. 20-30,000 tons.

COLUMBIA

Armour Fertilizer Works

(Main ofc: Atlanta, Ga.) Phosphate rock mines. W. B. King, Supt.

A—International Minerals & Chemical Corp.

(Main ofc: Chicago, Ill.) Rock phosphate mines. F. A. Koechlein, Gen. Mgr.; C. L. Richards, Plant Mgr.; S. T. Keel, Sales Mgr.

C—Ruhm Phosphate & Chemical Co.

P. O. Box 361; tel: 3610 & 3611. Oliver M. Babcock, Jr., Pres. & Gen. Mgr.; Jere A. Dorminy, Asst. to Gen. Mgr.; Ruby Owens, Asst. Treas. & Ofc. Mgr.; W. B. Huff, Wks. Mgr. 200,000 tons. 4 mills, 20 tons per hr.

A—Shea Chemical Corp.

P. O. Box 602; tel: 3071. (Main ofc: Baltimore, Md.) O. D. Crosby, Plant Mgr.; Wm. Bernhardt, Prod. Mgr.; V. H. Shea, Jr., Pur. Agt. 100,000 tons phosphoric acid.

COVINGTON

C—Farm Services

East St. at Sherrod Ave.; tel: 2290. W. G. McGowan, Sr., W. G. McGowan, Jr. (Prod. Mgr.), & V. A. Roy, Ptnrs.; Velton M. Hazlerig, Plant Mgr. 6,000 tons.

DAYTON

BCF—Dayton Coal & Iron Corp.

L. A. Morgan, Pres.; J. Wesley Gardner, V.P. & Treas.; Mildred Lydecker, Sec.; Luke Lee, Jr., Plant Mgr. 40,000 tons.

DECATUR

Meigs Farmers Cooperative

J. Howard Hornsby, Pres.; G. S.

Denton, Jr., V.P.; Edd Norman, Sec.-Treas.; Roy C. Ashley, Plant Mgr.

GRAY STATION

C—A. D. Adair & McCarty Bros., Inc.

(Main ofc: Atlanta, Ga.) George H. Crossley, Supt. 10,000 tons.

GREENEVILLE

International Minerals & Chemical Corp.

(Main ofc: Chicago, Ill.) Sam B. Broyles, Dist. Sales Mgr.; J. C. Barry, Supt.

HALLS

C—Apco Fertilizer Co.

P. O. Box 146; tel: 5091 & 5681. (Now affiliated with Mid-South Chemical Co., Memphis, Tenn.) James W. Porter, Pres.; E. L. Figg, V.P. & Pur. Agt.; Margie H. Finley, Asst. Sec.-Treas.; F. W. Finley, Plant Mgr. 20,000 tons. 1 mill.

HUMBOLDT

C—Federal Chemical Co.

(Main ofc: Louisville, Ky.) Thomas S. Miller, Plant Mgr.; R. M. Brown, Div. Sales Mgr.

HUNTINGDON

Carroll County Cooperative Supplies Assn.

C. B. King, Pres.; A. T. Abernathy, V.P.; Wm. Pinkley, Sec.-Treas.; Earl Newsome, Plant Mgr. 150 tons.

KNOXVILLE

B—Knoxville Fertilizer Co.

General offices. Box 119; tel: 7-4444. J. W. Dean, Pres.; N. C. Myers, Jr., V.P.; J. C. Dean, V.P.; A. C. Myers, Treas.; Bennett E. Brown, Sec. & Pur. Agt.; N. H. Hartman, Plant Mgr. 100,000 tons. Several mills; belt conveyors & hoppers. Plants also at Nashville, Tenn. & London, Ky.

LA VERGNE

BEJ—Tennessee Farmers Cooperative

Tel: 901. Paul Quandt, Pres.; Walter Webb, V.P.; James Endsley, Sec.-Treas.; Franklin Nix, Gen. Mgr., Co-Mgr. Pesticide Div. & Co-Pur. Agt.; Chester Venable, Prod. Mgr. & Co-Pur. Agt.; W. H. Mitchell, Plant Mgr.; R. Y. Smock, Co-Mgr. Pesticide Div. 30,000 tons. 2 mills; conveyors to storage bins & from storage bins to shipping mills. Plant also at Tenco, Tenn.

MEMPHIS

C—Armour Fertilizer Works

P. O. Box 2357, Desota Sta. (Main ofc: Atlanta, Ga.) H. T. Ray, Div. Mgr.

Humphreys-Godwin Co.

H. B. McCorty, Pres.; G. G. Rich-

ardson, V.P.; H. B. Cooke, Jr., Treas.-Sec. 100,000 tons.

A—Virginia-Carolina Chemical Corp.

Tel: 4-6216 & 4-6217; factory tel: 4-3080. (Main ofc: Richmond, Va.)

MT. PLEASANT

B—Virginia-Carolina Chemical Corp.

(Factory & Phosphate rock mines) Tel: 3207 & 3208. (Main ofc: Richmond, Va.) L. A. Sands, Gen. Supt.

NASHVILLE

A—Armour Fertilizer Works

(Main ofc: Atlanta, Ga.) F. H. Conley, Div. Mgr.

B—Davison Chemical Corp.—Div. W. R. Grace & Co.

P. O. Box 1009; tel: 9-4536. (Main ofc: Baltimore, Md.) Geo. Klein, Dist. Mgr.; E. S. Jackson, Asst. Plant Mgr.

B—Federal Chemical Co., Inc.

Centennial Blvd. (Zone 9). Main ofc: Louisville, Ky.) John H. Ferguson, Plant Mgr.; Roy B. Nethery, Div. Sales Mgr.

B—Knoxville Fertilizer Co.

Box 118; tel: 42-0550. (Main ofc: Knoxville, Tenn.) N. C. Myers, Plant Mgr.; M. T. Myers, Asst. Mgr.; Edward McDermott, Supt. 60,000 tons. Mills; belt conveyors; hoppers.

TENCO

BEJ—Tennessee Farmers Cooperative

(Main ofc: LaVergne, Tenn.) E. C. Wilson, Plant Mgr. 30,000 tons. 2 mills; conveyors to storage bins; hopper system for batching.

UNION CITY

GHI—T & K Fertilizer Co.

L. E. Maloney, Pres., Treas. & Plant Mgr.; Tom Elam, Sec. 800 tons.

West Tennessee Tankage Co.

J. R. Meek, Jr., Pres.; Gordon Cheatham, V.P.; Mrs. S. R. Meek, Jr., Sec.-Treas. 130 tons tankage.

TEXAS

BONHAM

BFIJ—Hi-Yield Fertilizer Co.

P. O. Box 4; tel: LD-1. H. Dean Smith, Pres. & Mgr. Pesticide Div.; Pat Gowan, Plant Supt. 30,000 tons.

BRYAN

C—Bryan Cotton Oil & Fertilizer Co.

Tel: 2-5835. J. W. Howell, Jr., Pres.; Geo. T. Blazek, Sec.-Treas.; J. F. Slowey, Plant Supt. 2,000 tons.

CLINT

CFGHI—Southwest Fertilizer & Chemical Co.

100 Orange St.; P. O. Box 33; tel: 3101. (Main ofc: El Paso, Tex.) N. D. McAllister, Plant Mgr.

COMANCHE

CF—Central Texas Fertilizer Co.

P. O. Box 761; tel: 425. F. W. Prather, Pres.; Pat Cagle, V.P.; W. M. Durham, Jr., Sec.-Treas.; Russell Anderson, Plant Mgr. 8,000 tons. 3 mills, 8-10,000 tons; conveyor belts; continuous mixing & pelleting units.

DALLAS

B—Armour Fertilizer Works

(Main ofc: Atlanta, Ga.) H. G. Wells, Div. Mgr.

EL PASO

C—Heid Brothers Corp.

1705 Texas St. E. C. Heid, Pres.; Joseph Heid, Sec.-Treas.; Tirso Guzman, Jr., Whse. Fmn. & Plant Supt. 500 to 1,000 tons.

AF—Southwest Fertilizer & Chemical Co.

5030 E. Paisano Dr.; tel: Prospect 2-7423. B. J. Kerley, Jr., R. V. Kerley (Mgr. Pesticide Div.) R. E. Kerley & D. F. Kerley, Ptnrs.; W. G. Nelson, Controller & Pur. Agt.; B. N. Luttrell, Plant Mgr. 25,000 tons. Plants also at: Anthony, N. M.; Clint & Pecos, Tex.

FT. WORTH

C—Boyer Fertilizer Corp.

R. M. Boyer, Pres.; J. C. Boyer, V.P.; A. V. Doherty, Sec.-Treas.; J. Fred Pettigrew, Plant Mgr.; J. Joe Wilson, Prod. Mgr.; H. M. Shultz, Pur. Agt. 21,000 tons.

A—Consolidated Chemical Industries, Inc.

(Main ofc: Houston, Tex.) O. D. Massey, Plant Mgr.

B—International Minerals & Chemical Corp.

(Main ofc: Chicago, Ill.) R. I. Gilliland, Dist. Sales Mgr.; W. E. Saunderson, Supt.

GILMER

C—Gilmer Cotton Oil & Fertilizer Co.

Box 276; tel: 192. C. D. Shallenberger (Shreveport, La.), Pres.; E. L. Patterson, Sec. & Pur. Agt.; Will T. Tramel, Supt. 15,000 tons.

HARLINGEN

BFI—Kipfer Chemical Co.

1 Mi. West State Hwy.; Box 770; tel: 629. A. E. Kipfer, Owner; E. J. Hobbs, Plant Supt. 20,000 tons.

HENDERSON

CGI—Agricultural Chemicals, Inc.

Box 130. (Main ofc: Llano, Tex.) K. M. Lust, Mgr.; J. C. Price, Plant Supt. 5-10,000 tons. 1-ton Sturtevant mixer; 250-ft. conveyor; 100-ft. unloading conveyor; 2 bagging hoppers; pelleting unit.

HOUSTON

A—Armour Fertilizer Works

(Main ofc: Atlanta, Ga.) D. A. Miller, Div. Mgr.

C—The Best Fertilizers Co. of Texas

8420 Manchester Ave.; tel: WA 1988 & WO 8820. Lowell W. Berry, Pres.; W. L. Dixon, Jr., & Paul H. Durckel, V.P.'s; Stanley H. State, Sec.-Treas.; Russell C. Dellinger, Jr., Plant Mgr.; Raymond E. Kapalske, Prod. Mgr.; Kenneth Winborn, Pur. Agt. 200,000 tons sulphate of ammonia. 7 ammonium sulphate units, 600 tons per day; various belt conveyors; bagging hoppers, etc.

C—Campbell Fertilizer Co.

102 Japhet St. B. L. Henderson, Pres.; F. Campbell, V.P.; G. H. Seibel, Treas.-Sec. 12,000 tons. 1 mill, 400 bags per hr.; Payloaders; fork lifts; buggies.

A—Consolidated Chemical Industries, Inc.

640 Esperson Bldg. (Zone 2). E. S. Rothrock, Exec. V.P.; S. S. Emison, Sales Mgr.; W. G. Roberts, Pur. Agt.; C. M. Hickey, Prod. Mgr.; H. C. Snowden, Plant Mgr. Mfg. sulphuric acid, bone meal fertilizers.

Duval Sulphur & Potash Co.

General offices, 17th Floor Mellie Esperson Bldg.; tel: CEntal 7481. Geo. F. Zoffman, Pres.; Warren J. Dale, V.P.; R. A. Shepherd, V.P.; Eugene German, V.P. & Treas.; V. J. Thornhill, Sec. & Asst. Treas.; W. B. Wilkerson, Asst. Sec. & Asst. Treas. Sulphur mine at Orchard, Texas; potash mine & refinery at Carlsbad, N. M.

C—Fidelity Chemical Corp.

P. O. Box 1189; tel: Underwood 8131. A. Q. Pettersen, Pres.; Jas. Dawson, Jr., V.P.; M. D. Boggs, Sec.; Oscar F. Britton, Supt. 20,000 tons. Belt conveyor.

San Jacinto Chemical Co.—Div.

Smith-Douglass Co., Inc.

R. F. Hopkins, Pres. Nitrogen fixation plant.

C—Swift & Co.—Plant Food Div.

P. O. Box 7714. (Main ofc: Chicago, Ill.) S. B. Tatem, Mgr.

JACKSONVILLE

CF—Jacksonville Fertilizer Co.

Box 1225; tel: 6103. J. T. Carlisle, Pres., Prod. Mgr. & Pur. Agt.; H. H. Bomar, V.P.; K. S. Carlisle, Sec.-Treas.; R. R. Dunlap, Plant Mgr. 15,000 tons. 1 mill, 1 ton; conveyor belts; 2 Hough Payloaders.

LA FERIA

CG—Texas Liquid Fertilizer Co., Inc.

H. A. Shannon, Pres.; Joseph J. Crosby, V.P.; Chas. E. Shannon, Sec.-Treas.; J. B. Ashworth, Plant Mgr. & Pur. Agt. 1,000,000 gal. liq. fert. 1 mill; pumps & portable mixers for liquids.

LAS FRESNOS

CDI—Port Fertilizer & Chemical Co.

119 W. Ocean Blvd.; tel: Cedar 3-5751. Cleve H. Tandy, Owner; Cliff Neff, Plant Mgr.; John S. Chase, Prod. Mgr. & Pur. Agt.; Douglas Earley, Mgr. Pesticide Div. 500 tons soluble fertilizer; 4,000 tons insecticides.

LLANO

CGI—Agricultural Chemicals, Inc.

Main ofc: O. C. Behse, Pres. & Mgr. Pesticide Div.; F. G. Davis, Sec.-Treas.; K. M. Lust, Mgr. & Pur. Agt. Plant at Henderson, Texas.

LUBBOCK

CFGI—Wood Chemical Co.

P. O. Box 1295. W. R. Wood, Pres. & Pur. Agt.; J. Allen White, V.P. & Mgr. Pesticide Div.; Carl H. Casey, Sec.-Treas. & Supt.; D. R. McKinney, Prod. Mgr. 10,000 tons.

MALLEN

CDGH—Southwest Chemical Co., Inc.

500 S. 19th; P. O. Box 948; tel: 6-6527. Don E. Mahler, Pres. & Pur. Agt.; Guy G. Veal, Supt.; Ralph Baldwin, Prod. Mgr. 25,000 tons.

MARSHALL

C—Marshall Cotton Oil Co.

1101 E. Grand Ave. L. P. Martin, Pres.; George Prendergast, V.P.; Thelma M. Boyett, Sec.-Treas.; R. S. Geddie, Supt. 5,000 tons.

MOUNT PLEASANT

CDP—Hi-Yield Plant Food Co.

P. O. Box 491; tel: 65. H. Dean Smith (Bonham, Texas), Pres.; Walter M. Young, Mgr.; Howard Joe Miller, Supt.; Harold Baker, Mgr. Pesticide Div. 30,000 tons.

MULESHOE

CGHIJ—Western Fertilizer Co., Inc.

Box 398. Robert King, Pres. & Pur. Agt.; Lloyd Croslin, V.P.; Harold King, Sec.-Treas.; Paul Craig, Plant Mgr.; George Braggs, Prod. Mgr. 1,000 tons. Stedman mixer; Richardson scales & sewing equipment.

NACOGDOCHES

BF—Texas Farm Products Co.

P. O. Box 31; tel: 4-3711. M. S. Wright, Pres.; Steele Wright, V.P.; G. L. Weaver, Sec.-Treas.; Joe Wright, Supt.; Tom Wright, Prod. Mgr. 25,000 tons.

ORCHARD

Duval Sulphur & Potash Co.

P. O. Box 1032 Rosenberg, Texas; tel: (Wallis, Texas) 24. (Main ofc: Houston, Texas.) J. O. Tyree, Resident Mgr.; X. T. Stoddard, Asst. Mine Mgr.; R. C. Mollison, Pur. Agt. 180,000 tons crude sulphur.

PASADENA

A—Olin Mathieson Chemical Corp.—Agricultural Chemicals Div.

Tel: Grand 2-3651. (Main ofc: Little Rock, Ark.) J. R. Beatty, Operations Mgr.; J. A. Germany, Operations Supt.; H. E. McClean, (Gulf Bldg., Houston, Texas), Dist. Sales Mgr.

PECOS

CGHI—Southwest Fertilizer & Chemical Co.

P. O. Box 107; tel: 888. (Main ofc: El Paso, Texas) D. F. Kerley (Odessa, Texas) Prod. Mgr.; C. W. Wesson, Plant Mgr. 20,000 tons.

PLAINVIEW

CHI—Rowland & Gordon Co.

Box 170. Virgil Rowland, Pres., Pur. Agt. & Mgr. Pesticide Div.; Joe Montgomery, V.P. 5,000 tons.

SAN ANTONIO

CEGJ—Agri-Chem of Texas, Inc.

2734 Roosevelt Ave.; tel: Lehigh 2-9151. T. C. Brayshaw, Pres., Plant Mgr. & Pur. Agt.; Geo. B. Bancroft, Sec.-Treas. & Prod. Mgr. 6,000 tons soluble concentrated fertilizers for dry or liquid application.

CD—Bactex Co., Inc.

P. O. Box 4065, Sta. A. Robert M. Tobias, Pres.; Geo. J. Pettie, V.P. & Supt. 3,000 tons.

SULPHUR SPRINGS

BEFI—Red Star Fertilizer Co.

P. O. Box 486. W. S. Tyler, Actg. Gen. Mgr. & Pur. Agt.; Ewell A. Fox, Ofc. Mgr.; Collis Gowen, Plant Mgr. & Mgr. Pesticide Div.; Clyde Couch, Prod. Mgr. 50,000 tons.

TEXARKANA

CF—Farmers Fertilizer Co.

S. Lelia & Beaumont Sts.; Box 944. H. J. Trammell, Pres. & Pur. Agt.; J. C. Cabe, V.P.; C. D. Shallenberger, Sec.-Treas.; Roy V. Cherry, Supt. 15,000 tons. 2 mills, 30 tons each; Stedman bagging unit, 30-40 tons per hr.; Fertilizer Equipment Sales Co. hopper system; 400 ft. of 20-in. belt conveyor systems.

TYLER

CD—East Texas Products Co.—Div. Swift & Co.

Tel: 48-451. John Holmes, Pres.; C. T. Prinderville, V.P.; A. L. Bruckner, Treas.; A. H. Fritschel, Sec.; A. F. Miller, Gen. Mgr. Plant Prod. Div.; W. L. Gray, Plant Mgr.; W. P. Bryans, Supt.; R. J. Ross, Pur. Agt.

C—Tyler Fertilizer Co.

420 S. Oakland; tel: 4-7297. H. W. Lust, Owner; Tillman J. Cole, Plant Mgr. 12,000 tons.

WACO

IJ—Virginia-Carolina Chemical Corp.—Black Leaf Products Div. Tel: 4-2325. (Main ofc: Richmond, Va.)

UTAH

GARFIELD

Western Phosphates, Inc. P. O. Box 303. (Associated with Stauffer Chemical Co.) John Paul Jones, V.P. & Gen. Mgr. Treble superphosphate & phosphoric acid.

JOSEPH (Sevier County)

C—Brice Presby & Son Partnership.

MARYSVALE

The Calunite Corp. Mills & mines. (Main ofc: Altadena, Calif.) 150,000 tons alunite.

MIDVALE

BDEF—Mineral Fertilizer Co. 150 Sugar St.; P. O. Box 206; tel: 802. Frank H. Gunnell, Pres. & Pur. Agt.; Clyde C. Edmonds, V.P.; Lincoln F. Hanks, Sec.-Treas.; Frank H. Gunnell, Plant Mgr. & Mgr. Pesticide Div.; R. B. Sweat, Prod. Mgr.; C. M. Greenland, Pur. Agt. 10,000 tons. 2 mills; fully mechanized with conveyors & Payloaders.

PLEASANT GROVE

CEFGJ—Geneva Food & Chemical Co.

P. O. Box 246. Dr. H. C. Millar, Pres. & Gen. Mgr.; Rulon W. Williams, V.P.; Elsie Williams, Sec.-Treas. 8,000 tons. 1 mill, 30 tons daily; 2 belt conveyors; 1 elevator; 1 hopper; 1 self-emptying mixer.

SALT LAKE CITY

CEG—Leon Brown Floral Co. 520 Bothwell St.; P. O. Box 507. Leon Brown, Owner & Mgr. Pesticide Div.; Victor Blair, Plant Mgr. 500 tons. 2 mills, 5 & 15 tons.

C—Kelly-Western Seed Div.—Utah Cooperative Assn.

(A Farmers Union affiliate.) W. B. Robbins, Gen. Mgr.; Henry W. Hansen, Mgr. Seed & Fert. Div.; Jack Horton, Gen. Supt.; Henry Smith, Pur. Agt. 5,000 tons. 1 mill.

CGI—Wasatch Chemical Co.

N. D. Thatcher, Jr., Pres. & Treas.; N. D. Thatcher, Sr., V.P.; L. W. Thatcher, Sec.; W. L. Thatcher, Prod. Mgr.; Mrs. Fleda Hafen, Pur. Agt. 25,000 tons. 1 mill, 30 tons per hr.; completely mechanized.

VERMONT

BURLINGTON

C—Burlington Rendering Co.

Tel: 3-3591. (Main ofc: Consolidated Rendering Co., Boston, Mass.) W. P. Mitchell, Plant Mgr. 4-5000 tons.

VIRGINIA

ALEXANDRIA

A—The American Agricultural Chemical Co.

411 No. Lee St. (Main ofc: New York, N. Y.) J. H. Brown, Mgr.; A. W. Powell, Jr., Supt.

CEFJ—Herbert Bryant, Inc.

Box 330; tel: King 9-3500. J. C. Herbert Bryant, Pres.; J. T. Bowling, Sec. & Pur. Agt.; Arthur K. Claxton, Treas.; C. Gordon Smith, Asst. Treas.; Elvira Hammond, Asst. Treas.; A. N. Pierce, Plant Mgr. 25,000 tons.

BLACKSTONE

CF—Blackstone Guano Co., Inc.

Box 388. W. Fletcher Bergman, Pres., Treas., Prod. Mgr. & Pur. Agt.; W. C. Rives, Jr., V.P.; G. G. Osborne, Sec.; S. S. Harris, Plant Mgr. 12,000 tons.

BRISTOL

C—Southwest Virginia Cooperative, Inc.

Tel: N 4653. R. H. Snodgrass (Glade Spring, Va.), Pres.; S. J. Shelburne (Pennington Gap, Va.), V.P.; Orville B. Helton, Sec.-Treas. & Plant Mgr.; M. H. Overstreet, Plant Mgr. 25,000 tons. 2 mills, 20,000 tons; 190-ft. overhead belt conveyor system.

BUELL (NORFOLK)

C—F. S. Royster Guano Co.

Money Point. C. R. Wimbish, Supt.; K. C. Robinson, Mgr., Norfolk Sales Ofc. 40,000 tons.

CHARLOTTESVILLE

Elliott Ice Co.

CHILHOWIE

CEI—The Vance Co., Inc.

Q. A. Eller, V.P. in charge of Fert. Mfg.; J. M. Duncan, Treas.; W. N. Neff, Gen'l Mgr.; Robert Ferguson, Plant Mgr.; Wm. C. Kelly, Mgr. Pesticide Div. 10,000 tons.

CULPEPER

CF—Cooperative Fertilizer Service of Richmond, Inc.

P. O. Box 749. (Main ofc: Richmond, Va.) R. H. Carwile, Plant Mgr. 10,000 tons.

DANVILLE

C—Smith-Douglass Co., Inc.

P. O. Box 109. (Main ofc: Norfolk, Va.) P. J. Scearce, Plant Mgr. 25,000 tons.

ELLERSON

CF—Alliance Fertilizer Corp.

B. C. Garrett, Pres.; R. T. Avery, V.P.; S. A. Oliver, Treas.; B. H. Garrett, Sec.; W. G. Meredith, Plant Supt. 7,000 tons. 1 Atlanta Utility mill; 1 unloading elevator; 2 50-ft. stationary conveyors; 2 40-ft. shuttle conveyors; 1 St. Regis valve bag packer. Plant also at Milford, Va.

C—Bradley & Boswell

Frank B. Bradley, Sr., Pres., Treas. & Pur. Agt.; Frank B. Bradley, Jr., Sec.; H. W. Bradley, Plant Mgr.; C. L. Dunn, Supt. & Pur. Agt. 10,000 tons. 2 mills; 2 car unloader tractor car scoops.

HARRISONBURG

CFJ—The Central Chemical Corp.

P. O. Box 7; tel: 4-6751. (Main ofc: Hagerstown, Md.) John Babbage, Plant Mgr. & Mgr. Pesticide Div. 15,000 tons. 3 mills.

HOPEWELL

Nitrogen Div.—Allied Chemical & Dye Corp.

P. O. Box 61; tel: 871. (Main ofc: New York, N. Y.) F. A. Ernst, Mgr.

KENBRIDGE

CF—Farmers' Cooperative Fertilizer Purchasers, Inc.

P. O. Box 366; tel: 2511. C. H. Stevens, Pres.; E. S. Roby, Jr., V.P.; W. S. Manson, Jr. Sec.-Treas.; T. R. Cocks, Prod. Mgr. 18,000 tons. 2 mills, 25 tons per hr.; belt conveyors.

LYNCHBURG

C—F. S. Royster Guano Co.

(Main ofc: Norfolk, Va.) W. C. Wheatley, Mgr. Sales; J. L. Adamee, Supt. 25,000 tons.

A—Virginia-Carolina Chemical Corp. Tel: 2-6433. (Main ofc: Richmond, Va.)

MILFORD

CF—Alliance Fertilizer Corp.

Tel: (Bowling Green, Va.) 3-2371. (Main ofc: Ellerson, Va.) Ed. R. Dordson, Mgr. 5,000 tons. 1 Sackett mill.

MOUNT JACKSON

BFJ—Valley Fertilizer & Chemical Co., Inc.

George B. Holtzman, Pres. & Plant Mgr.; L. D. Arnold, Sec.-Treas. 6,000 tons.

NORFOLK

C—The American Agricultural Chemical Co.

P. O. Box 4568, Berkley Sta. (Main ofc: New York, N. Y.) N. E. Edwards, Mgr.; A. J. Fitzula, Supt.

C—Armour Fertilizer Works

908 Bank of Commerce Bldg.
(Main ofc: Atlanta, Ga.) F. G. Carlisle, Div. Mgr.

C—Cooperative Fertilizer Service of Norfolk, Inc.

P. O. Box 777; tel: 66-2449. W. T. Steele, Jr., Pres.; M. G. Mann, V.P.; A. Preston Sale, Jr., Exec. V.P.; L. A. Daugherty, Jr., Comptroller; K. R. Eckles, Treas.; Jas. R. Ayers, Jr., Sec.; Miss Louise Ruley, Asst. Sec.; M. K. Hassell, Mgr. 120,000 tons.

Cornet Phosphate Co., Inc.—Div.

Smith Douglass Co., Inc.

General office only. Board of Trade Bldg.; P. O. Box 29; tel: 2-3211. R. S. Rydell, Pres.; B. G. Dabney, V.P.; G. W. Johnson, Pur. Agt.; W. H. Taylor, Supt.; R. M. Wilbur, Asst. Supt. Phosphate producers only; plant at Plant City, Fla.

B—Farmers Guano Co.

P. O. Box 4526, Berkley Sta. (Main ofc: Farmers Cotton Oil Company, Wilson, N. C.) Ben Ottinger, Mgr. 50,000 tons. 4 mills; batch hoppers; 2 conveyors; 2 shuttle conveyors; 1 cross conveyor.

C—Nichols Fertilizer Corp.

Freeman Ave., Money Point; P. O. Box 4598, Berkley Sta.; tel: 66-2489. W. L. Nichols, Pres. & Treas.; W. R. Jordan, V.P.; J. A. White, Sec.; E. D. Culpepper, Plant Mgr. 20,000 tons. 2 mills. 1½ & 1 ton; Savage hopper system.

C—Chas W. Priddy & Co., Inc.

Sydor Y. Priddy, Pres.; A. L. Ridgwell, J. S. Hand, V.P.'s; Chas. O. Lawrence, Sr., Sec.-Treas.; T. A. Branche, Supt.; Charles Lawrence, Jr., Prod. Mgr. 50,000 tons.

C—Reliance Fertilizer & Lime Corp.

Tel: 66-3543. J. J. Joyce, Pres., Treas. & Pur. Agt.; C. G. Lawrence, (Prod. Mgr.), R. S. Hill, V.P.; V. C. Hare, Sec.; L. W. Wilson, Supt. 20,000 tons fertilizer; 15,000 tons burned shell lime. 1 mill, 1½ ton; hopper system for handling superphosphate.

A—Robertson Chemical Corp.

P. O. Box 1321; tel: 2-5753. General offices: C. B. Robertson, Pres.; J. E. Ames, Jr., V.P.; R. S. Eggleston, Treas.; J. L. Eley, Jr., Asst. Treas.; J. Morton Eggleston, Sec.; C. W. Best, Prod. Mgr.; S. H. Hall, Supt. 75,000 tons. Plants also at: Raleigh, Statesville & Wilmington, N. C.; South Hill, Va.

F. S. Royster Guano Co.

Royster Bldg.; P. O. Box 1940. General Office. C. F. Burroughs, Pres.; F. S. Moore, W. T. Wright, F. S. Royster, Jr., V.P.'s; Chas. F. Burroughs, Jr., Treas.; Sheppard R. Cooke, Sec. Plants at: Mulberry, Fla.; Baltimore, Md.; Lyons, N. Y.;

Wilmington, Charlotte, & Washington, N. C.; Buell (Norfolk) & Lynchburg, Va.; Charleston & Spartanburg, S. C.; Atlanta & Macon, Ga.; Montgomery & Bessemer, Ala.; Jackson, Miss.; Toledo, Ohio; Indianapolis, Ind.; Madison, Wisc.

Smith-Douglass Co., Inc.

General offices. 600 Board of Trade Bldg.; P. O. Box 419; tel: 2-3211. R. B. Douglass, Pres. & Treas.; W. B. Copeland, J. A. Monroe, J. H. Culpepper, V.P.'s; W. R. Ashburn, V.P. & Gen. Counsel; W. F. Powers, Sec.; S. L. Lott, Controller & Asst. Treas.; L. H. Jackson, Asst. Sec.; J. H. Zwemer, Prod. Mgr.; D. C. Kieffer, Dir. Research & Development; J. V. Champion, Plant Mgr. of Norfolk plant (Key: A). Plants also at: Danville, Va.; Wilmington & Kinston, N. C.; Streator, Ill.; Albert Lea, Minn.

Smith-Rowland Co.—Div Smith-Douglass Co., Inc.

2nd Fl. Board of Trade Bldg.; P. O. Box 1219; tel: 2-7155. R. B. Douglass, Pres.; J. A. Monroe, V.P.; W. F. Powers, Sec.; W. W. Johnson, Prod. & Sales Mgr.; K. L. Rue, Pur. Agt. 20,000 tons nitrogenous tankage at Norfolk. Plants also at: Selbyville, Del. & Granite City, Ill.

A—Swift & Co.—Plant Food Div.

627 Wainwright Bldg. (Main ofc: Chicago, Ill.) W. J. Richardson, Mgr.

BFGH—Weaver Fertilizer Co., Inc.

807 Bank of Commerce Bldg.; tel: 2-6591, 2-6592; factory tel: 66-0941. A. W. Weaver, Pres.; C. W. Bradshaw, V.P. & Pur. Agt.; B. P. Eggleston, Jr., Sec.-Treas.; E. E. Towe, Plant Mgr. 60,000 tons. 4 mills; hopper system; belt conveyors; building sulphuric acid plant. Plants also at: Winston-Salem, N. C.

The Weaver Tankage Corp.

807 Bank of Commerce Bldg. A. W. Weaver, Pres., Prod. Mgr. & Pur. Agt.; C. W. Bradshaw, V.P.; B. P. Eggleston, Jr., Sec.-Treas.; Roy M. Newton, Supt. 12,000 tons nitrogenous tankage. 1 mill; belts & conveyors.

PORTSMOUTH

C—Baugh & Sons Co.

(Main ofc: Baltimore, Md.) E. A. Barker, Sales Mgr.; A. C. Hill, Plant Mgr.

A—Virginia-Carolina Chemical Corp.

Tel: 9-1141. (Main ofc: Richmond, Va.)

RICHMOND

CF—Bone Dry Fertilizer Co.

P. O. Box 1655. Ben B. LeCompte, Sr., Owner; P. Croxton Lewis, Plant Mgr. 20,000 tons.

Cooperative Fertilizer Service of Richmond, Inc.

Home Office. W. T. Steele, Jr., Pres.; A. Preston Sale, Jr., Exec. V.P.; K. R. Eckles, Treas.; F. M. Armbricht, Asst. Treas.; Jas. R. Ayers, Jr., Sec.; Miss Louise Ruley, Asst. Sec. Plants at Culpeper, Va.; Louisville & Winchester, Ky.

BF—Richmond Guano Co.

P. O. Box 544; tel: 2-5861. W. E. Barret, Pres.; W. B. Badenoch, V.P.; Wm. B. Badenoch, Jr., Asst. Sec.; R. A. Bell, Asst. Treas.; L. Dudley George, Sec.-Treas., Prod. Mgr. & Pur. Agt. 60,000 tons. 3 mills; belt conveyors; part hopper systems; pneumatic material handling system; fork trucks, etc.

Virginia-Carolina Chemical Corp.

General Offices. tel: 2-0113; factory tel: 2-9363. J. A. Howell, Pres.; C. Cecil Arledge, Edwin Cox, A. J. Dickinson & Chas. E. Heinrichs, V.P.'s; Irving D. Daws, V.P. & Treas.; Geo. Osborne, Sec. Plants also at: Birmingham, Dothan, Mobile, Montgomery & Wylam, Ala.; Little Rock, Ark.; Jacksonville & Nichols, Fla.; Albany, Atlanta, Augusta, Rome & Savannah, Ga.; E. St. Louis, Ill.; Ft. Wayne, Ind.; Dubuque, Ia.; Hopkinsville, Ky.; Shreveport, La.; Baltimore, Md.; Jackson, Miss.; Carteret, N. J.; Charlotte, Durham, Selma, Wadesboro & Wilmington, N. C.; Cincinnati, Ohio; Charleston & Greenville, S. C.; Memphis & Mt. Pleasant, Tenn.; Lynchburg & Portsmouth, Va. **Phosphate Mining Div.:** Mines at Nichols, Fla. & Mt. Pleasant, Tenn. **Black Leaf Products Div.:** Plants at: Louisville, Ky.; Richmond, Va.; Montgomery, Ala.; Waco, Texas. **Chemicals Div.:** Plants at Nichols, Fla.; Fernald (Cincinnati), Ohio; Charleston, S. C.

SOUTH HILL

CF—Robertson Chemical Corp.

Tel: 30. (Main ofc: Norfolk, Va.) S. P. Anderson, Mgr. 10,000 tons.

SOUTH NORFOLK

A—F. S. Royster Guano Co.

Ft. of Ohio St. (Main ofc: Norfolk, Va.) J. F. Walker, Supt.; K. C. Robinson, Mgr., Norfolk Sales Ofc. 125,000 tons.

SUFFOLK

C—Dixie Guano Co., Inc.

H. L. Bain, Pres.; R. G. Bain, V.P.; P. Wilson, Sec.-Treas., & Gen. Mgr.; L. M. Daniel, Plant Mgr. 15,000 tons.

WASHINGTON

COLFAX

C—Northwest Gypsum Co.

N. 201 Main. Earl C. McEuen,

Pres.; Arthur Stueckle, Sec.-Treas.; W. L. Clearwater, Prod. Mgr., Pur. Agt. & Mgr. Pesticide Div. 50,000 tons.

ELLENSBURG

C—Charles H. Lilly Co.
(Main ofc: Seattle, Wash.) Lee Fryer, Plant Mgr. 6,000 tons.

LYNDEN

CIJ—Lynden Department Store, Inc.
Box 33; tel: 1801. W. H. Waples, Pres.; L. G. Judson, V.P., Treas., Pur. Agt. & Mgr. Pesticide Div.; Peter Koert, Sec.; Clarence Bode, Plant Mgr. 4,500 tons. 1 mill, 1 ton.

MONROE

CFJ—Shur-Crop Corp.
P. O. Box 126; tel: 2492. M. V. Wolfkin, Pres., Pur. Agt. & Co-Plant Mgr.; R. G. Herzog, V.P., Prod. Mgr. & Co-Plant Mgr.; V. J. Wolfkin, Treas.; Ted Britten, Mgr. Pesticide Div. 5,000 tons. 1 mill, ½ ton; belt conveyor from siding to leg distributes bulk material to any of 8 bulk bins; also charges 8 4-ton overhead bins which feed into scale hopper, then to mixer.

SEATTLE

CGJ—Alaska Liquid Fish Fertilizer Co.
84 Seneca St.; tel: MA 4417. E. J. Wolf, Owner & Pur. Agt.; Miss E. G. Becker, Sec.; Ed Sheeley, Plant Mgr.; Guy F. Callender, Mgr. Pesticide Div.

CGIJ—J. W. Dunn & Co.
1912 Pike Pl.; tel: MA 3924. H. W. Foster, Prop. 1,500 tons. 1 mill, ½ ton mixer.

CJ—Galbraith & Co.
2428 Alaskan Way. B. F. Morris, Pres.; F. S. Bogue, Treas.; Garnet G. Morris, Sec.; A. R. Burkette, Supt. & Mgr. Pesticide Div. 3,500 tons. 2 mills, 1 & 2 ton; 3 bucket elevators.

C—James Henry Packing Co.
2025 Airport Way. O. B. Joseph, Pres., Prod. Mgr. & Pur. Agt.; H. A. Kurtzman, V.P. & Treas.; Kenneth Cole, Sec.; E. J. Schlegel, Supt. 300 tons tankage.

CDEFGIJ—Chas. H. Lilly Co.
1900 Alaska Way. General Offices only. C. F. Larsen, Pres.; Karl Von Normann, V.P.; E. E. White, Treas.-Sec. & Mgr. Pesticide Div.; Lee Fryer, Mgr. Fertilizers. Plants at Ellensburg & Mt. Vernon, Wash.

CD—Magnolia Fertilizer Co.
1144 Ballard Way; tel: Dex 0054. H. Waltersdorff, Pres.; Florence Waltersdorff, V.P.; R. Franklin, Sec.; E. B. Helgeson, Treas., Prod. Mgr. & Pur. Agt.; Harry Renken, Supt. 3,000 tons.

CDI—Marine By-Products Fertilizer Co.
3308 Harbor Ave., S.W. Willis R.

Lebo, Pres.; W. R. Lebo, Jr., V.P.; Martha C. Lebo, Sec.-Treas.; Ted McMann, Plant Mgr. 10,000 tons. 5 mills, bone 1 ton per hr., organic 10 tons per hr.; bulking conveyor; crane; floor bins.

CJ—Oregon-Washington Fertilizer Co.

P. O. Box 3324. Main office. Mac C. Taylor, Pres.; Frank W. Taylor, V.P. & Treas.; Allen Peyser, Sec. 10,000 tons. Plant also at Portland, Oreg.

C—Wilbur-Ellis Co.

500 Central Bldg. (Main ofc: Los Angeles, Calif.) John Stevens, Plant Supt. 5,000 tons.

SPOKANE

C—Activated Fertilizer Corp. of Washington

737 Peyton Bldg.; tel: Madison 1851. S. E. Salter, Pres.; Floyd T. Vaughn, V.P.; Bert P. Woolridge, Sec.-Treas. (Plant not yet in production.)

Spokane Portland Cement Co.

724 Old National Bank Bldg.; tel: MA 2196. G. M. Bell, Pres.; Dwight D. Hartman, Sec.; W. W. Witherspoon, Treas.; Charles E. Cordell, Asst. Sec.; Robert Crook, Plant Mgr. 10-15,000 tons ground limestone. 1 mill, 6½ tons per hr.; conveyors & elevators for intake & discharge to storage bins & packing machine.

TACOMA

B—Nu Life Fertilizers, Inc.

P. O. Box 1636. Thomas Carstens, Pres.; Philip Carstens, V.P.; Mrs. Doris McKendry, Sec.-Treas.; Fred P. Parcher, Mgr. Fert. Dept.; Otto Stoltz, Prod. Mgr.; Dave Boyd, Pur. Agt. 25,000 tons.

B—Stauffer Chemical Co.—Pacific Northwest Div.

(Main ofc: San Francisco, Calif.) John B. Wheeler, Plant Supt.

WALLA WALLA

CGH—Simplot Soilbuilders—Div. J. R. Simplot Co.

P. O. Box 285; tel: 6382. (Main ofc: Pocatello, Idaho.) Wells Labberton, Plant Mgr. 2,000 tons.

Walla Walla Meat & Cold Storage Co.

N. 4th Ave.; Box 336; tel: 177. Mrs. F. M. Loden, Jr., Pres.; Eugene Tausick, V.P.; Theodore R. Rich, Treas. & Gen. Mgr.; Harold Banks, Sec.; John Hargert, Prod. Mgr.; Mrs. Tharpe, Pur. Agt. 222 tons animal by-product, 21 tons dried blood. 1 mill, 2 tons daily.

WAPATO

CFGHJ—Washington Liquid Fertilizer Co.

211 W. First St.; tel: 9-3491. W. L. Mayo, Pres. & Pur. Agt.; Geo. H. Pitt, Sec.-Treas.; Phil Mirosh, Plant Mgr.; Lloyd Bordelou, Mgr. Pesticide Div. 300,000 gal liq. fert.

WENATCHEE

BF—Wells & Wade, Inc.

L. C. Norlin, Mgr.; Chas. G. Slick, Treas.; Lehm L. Brown, Sec.; E. W. Baker, Plant Mgr.; E. E. King-ton, Pur. Mgr. 5,000 tons.

YAKIMA

Washington Organic Fertilizer, Inc.
409 Masonic Temple. L. M. Sanders, Pres.; Lane Morthland, V.P.; O. J. Reynolds, Sec.-Treas. & Plant Mgr.

CIJ—Yakima Valley Spray Co.

P. O. Box 513; tel: 3-7197. R. L. Maulsby, Pres.; A. J. Weeber, V. P.; S. W. Martin, Sec. & Mgr. 10,000 tons. 3 mills.

WEST VIRGINIA

CHARLESTON

CDI—Chemical Formulators, Inc.

Box 10035, Sta. "C"; tel: 4-0138. R. E. Kincaid, Pres., Plant Mgr. & Mgr. Pesticide Div.; T. H. Kiefer, V.P.; R. H. Erskine, Sec.-Treas. & Pur. Agt. 2,000 tons.

CHARLESTOWN

CEFGI—Miller Chemical Corp.

F. T. Fiery, Pres. & Mgr. Pesticide Div.; S. H. Stone, V.P., Prod. Mgr. & Pur. Agt.; W. N. Long, Treas.; Ira Springer, Plant Supt.; S. H. Stone, Prod. Mgr. 10,000 tons. 1 mixing unit, 25-ton; 1 bagging unit, 20-ton; hopper; rotary mixer; belt conveyor; 3 Payloaders.

MORGANTOWN

Olin Mathieson Chemical Corp.

Ammonia Plant. Tel: 3491. (Main ofc: Baltimore, Md.) M. B. Wright, Mgr.

WISCONSIN

ANTIGO

CFGH—Wisconsin Farmco Service Cooperative

Box 7; tel: 3-4882. (Main ofc: Madison, Wisc.) Robert Sachschtale, Plant Mgr. 10,000 tons.

CARROLLVILLE

C—United Fertilizer Co.

F. L. Weyenberg, Pres.; Carl Greilach, Mgr. & Treas. 75,000 tons process tankage.

GREEN BAY

C—Northwest Cooperative Mills

Tel: Hemlock 5-1355. (Main ofc: St. Paul, Minn.) Dominick Stoler, Plant Mgr.; G. O. McMillin, Mgr. Fert. Div. 40,000 tons. 1 basing mill & 1 shipping mill, 30 tons per hr.; belt conveyors; Synxtron scale hopper system.

BFGH—Wisconsin Farmco Service

Cooperative

Tel: Hemlock 2-1406. (Main ofc: Madison, Wisc.) Byrl Sotzen, Plant Mgr. 30,000 tons.

HILLSBORO

CF—Kickapoo Fertilizers—Div. Mid-western Phosphate Corp.
Tel: 51. D. W. Aitken, Pres. & Gen. Mgr.; J. P. Menn, Sales Mgr. 15,000 tons. (Main ofc: Madison, Wisc.)

KENOSHA

CIJ—The N. S. Koos & Son Co.
4500 13th Ct.; tel: 4-5333. Miss Grace A. Koos, Pres. & Pur. Agt.; Donald W. Anderson, V.P.; Mary A. Koos, Sec.-Treas.; Lee Hagopian, Plant Mgr.; Robert J. Finch, Prod. Mgr.; Charles B. McIntyre, Mgr. Pesticide Div. 50,000 tons. 1 mill.

MADISON

A—Midwestern Phosphate Corp.
Box 948. Donald W. Aitken, Pres. & Treas.; A. D. Strohbar, V.P. Plant also at Hillsboro, Wisc.

A—F. S. Royster Guano Co.

(Main ofc: Norfolk, Va.) D. Hatherly, Mgr. Sales Ofc. 60,000 tons.

C—Swift & Co.—Plant Food Div.
Box 152. (Home ofc: Chicago, Ill.) W. J. Klossner, Mgr.

Wisconsin Farmco Service Cooperative

General offices only. Curtis Hatch, Pres.; A. C. Murphy, V.P.; J. C. Green, Sec.; George R. Niebur, Treas.; Ray L. Pavlak, Gen. Mgr.; Clifford J. Kindschi, Prod. Mgr. Plants at: Antigo, Green Bay, Prairie du Chien & Whitewater, Wisc. 130,000 tons. 10 mills, avg. 30 tons per hr. per mill; complete mechanization in all plants.

MILWAUKEE

C—The Fertilizer Corp.

James O. Montague, Pres. & Plant Mgr.; L. J. Weiss, V.P.; Arthur J. Engel, Treas.; Wm. A. Wegener, Sec. 1,500 tons.

C—City of Milwaukee—Sewerage Commission

D. Leary, Chief Engr. & Gen. Mgr.; O. J. Noer, Sales Mgr.; John H. Fowles, Actg. Sec.; William Landsiedel, Plant Mgr.; Silas P. Graham, Pur. Agt. 65,000 tons tankage. 6 mills, 10 tons per hr. each; belt conveyors; screw conveyors; elevators.

NEILLSVILLE

CDFI—H. H. Van Gorden & Sons
700 Grand Ave.; tel: 88. A. H. Van Gorden, Pres.; K. S. Van Gorden, V.P.; R. H. Van Gorden, Treas. & Prod. Mgr.; H. A. Van Gorden, Sec. & Pur. Agt.; Frank Nauertz, Plant Mgr. 2,000 tons.

PRAIRIE DU CHIEN

BFGH—Wisconsin Farmco Service

Cooperative
Tel: 425 & 426. (Main ofc: Madison, Wisc.) Lyle Barndt, Plant Mgr. 65,000 tons.

WATERTOWN

C—Wisconsin Plant Food, Inc.
P. O. Box 238. P. H. Hornburg, Pres. & Plant Mgr.; Carl Greilach, V.P.; H. Wick, Sec.-Treas. 5,000 tons.

WHITewater

CFGH—Wisconsin Farmco Service

Cooperative
Tel: 126. (Main ofc: Madison, Wisc.) Stanley S. Schaefer, Plant Mgr. 25,000 tons.

WYOCENA

CDEJ—Wvocena Farmers Co-Operative Co.

Tel: 6-J. Leo Link (Cambria, Wisc.), Pres.; Wayne Mountford (Poynette, Wisc.), V.P.; G. W. Spear, Sec.-Treas. & Plant Mgr.; Marvin Spear, Mgr. Pesticide Div. 3,000 tons. 1 mill; Stedman fertilizer unit.

WYOMING

FT. LARAMIE

Ft. Laramie Fertilizer Co.
Marie C. Hunts, Owner. Mine & sell natural mineral elements.

KEMMERER

B—Phosphate Minerals, Inc.

Tel: 37. Karney Redman, Pres.; Joseph Profaizer, V.P.; Keiji Nakamura, Sec.-Treas.; Matt Bertagnolli, Gen. Mgr. & Pur. Agt.; Oliver Kampman, Plant Mgr. 3,000 tons. (Cap: 25,000 tons.) 2 Raymond mills, 4 tons per hr.; 3 belt conveyors; 4 bucket elevators; 90 x 7-ft. rotary kiln; 7 hopper systems; 3 screw conveyors.

SAGE

C—San Francisco Chemical Co.

c/o Leefe Mind. D. L. King, Pres.; Rex L. Jones, Sec.-Treas.; Preston S. Pugmire, Supt.; Wm. Eschler, Plant Mgr. 250,000 tons.

THERMOPOLIS

Pacific Coast Fertilizer Co.

(Main ofc: 1001 Northern Life Tower.) D. R. Girdwood, Pres.; Kenneth P. Hutton, Gen. Mgr.; W. T. Hardendorf, Supt.

ALASKA

KETHCHIKAN

Salmon By-Products Co., Inc.
Willis R. Lebo, Pres.; Willis R. Le-

bo, Jr., V.P. & Mgr.; Martha C. Lebo, Sec. 1,500 tons fish meal (capacity 1,000 tons per mo.; seasonal operation, 1½ months per yr.)

AUSTRALIA

SYDNEY, NEW SOUTH WALES

AD—Australian Fertilizers, Ltd.

5 Macquarie Place. Sir Alex A. Stewart, Chmn of Dir.; T. H. Williams, Gen. Mgr.; R. J. Reid, Sec.; T. W. Tobe, Wks. Mgr. 130,000 tons.

CANADA

ALBERTA

CALGARY

CJ—Burns & Co., Ltd.

Head Office & Plant. R. J. Dinning, Pres.; R. S. Munn, Gen. Mgr.; G. A. Knechtel, Treas.; J. Howard Kelly, Sec.; D. McLaren, Supt. 9,000 tons chem. fert. & 850 tons organic fert. 6 mills, 10,000 tons; belt conveyors; hopper systems. Plants also at: Edmonton, Alta.; Prince Albert & Regina, Sask.; Winnipeg, Man.; Vancouver, B. C. & Kitchen-er, Ont.

The Consolidated Mining & Smelting Co. of Canada, Ltd.

Box 370; tel: 4-2186. (Main ofc: Trail, B. C.) R. W. Diamond, V.P. — Western Region; T. C. McBeath, Prairie Sales Mgr.; R. S. Woodford, Supt.

EDMONTON

Burns & Co., Ltd.

(Main ofc: Calgary, Alta.) Organic plant.

BRITISH COLUMBIA

KIMBERLY

The Consolidated Mining & Smelting Co. of Canada, Ltd.

(Main ofc: Trail, B. C.) L. J. Nicholson, Plant Mgr.

NEW WESTMINSTER

BGIJ—Green Valley Fertilizer & Chemical Co., Ltd.

P. O. Box 140; tel: 2715, 2716 & (Vancouver, B. C.) DEXter 7606. F. V. Lamb, Pres.; G. E. White, Sales Mgr. & Mgr. Pesticide Div.; A. E. Wright, Plant Mgr.; D. Sharp, Prod. Mgr. 15-20,000 tons. 2 mills, 10 & 25 tons per hr.; 1 batch mixer; 8 hoppers; automatic scale; Convey-Air system to bulk bins; belt conveyor system, 2 Hough Payloaders & 1 tractor for superphosphate handling.

SOUTH VANCOUVER

Globe Fertilizer Co.

Compton Rd. John Aitken, Mgr. 4,000 tons.

TRAIL

A—The Consolidated Mining & Smelting Co. of Canada, Ltd.
R. E. Stovort, Pres.; R. W. Diamond, Exec. V.P.—Western Region; L. O. Reid, Sec.; E. A. G. Colls, Mgr. Chemical & Fert. Div.; A. L. Irwin, Pur. Agt. 675,000 tons. Mfg. sulphate of ammonia, ammonium nitrate, ammonium phosphate, ammonium phosphate, sulphate.

VANCOUVER

CFG1—Buckerfield's, Ltd.
P. O. Box 219. E. E. Buckerfield, Pres.; Gordon Farrell, V.P.; R. S. McCall, Sec.-Treas.; Jack Ordish, Plant Mgr.; D. A. MacLachlan, Mgr. Fert. & Insecticide Dept. 15,000 tons.

C—Burns & Co., Ltd.
(Main ofc: Calgary, Alta.) I. M. McConnan, Plant Mgr.; H. Munro, Prod. Mgr. 15,000 tons chemical mixes.

A—Consolidated Mining & Smelting Co. of Canada, Ltd.
506 Marine Bldg.; tel: Marine 6331. (Main ofc: Trail, B. C.) K. T. Seaborne, Western Mgr. — Chem. & Fert. Sales.

C—Vitalerth Products, Ltd.
1741 W. 4th Ave. D. M. Sutton Pres. 4,000 tons.

MANITOBA

WINNIPEG

CJ—Burns & Co., Ltd.
(Main ofc: Calgary, Alta.) Organic fert. plant.

NEW BRUNSWICK

EAST ST. JOHN

C—Canada Packers, Ltd.
Box 1384; tel: 3-3936. (Main ofc: Toronto, Ont.) J. K. Leggatt, Maritime Mgr.; S. G. Downing, Plant Mgr. 35,000 tons.

ST. JOHN

C—International Fertilizers, Ltd.
Tel: 3-1239. (Main ofc: Quebec, Que.) J. T. Driscoll, Mgr.; L. J. Comeau, Plant Mgr.; J. L. Garey, Prod. Mgr. 60,000 tons. 1 Sturtevant mixing unit, 30 tons per hr.; 1 granulating unit with Werkspoor dryer, 10-15 tons per hr.; 3 Sturtevant sacking units with Bates valve packers, 25 tons per hr. each; Forano & Stephens-Adamson conveyors; Sturtevant & Stephens-Adamson elevators; locally constructed hoppers; HA, HL & HF Hough Payloaders; bag conveyor belts to cars and Towmotor lift trucks.

SAINT STEPHEN

C—Summers Fertilizer Co., Inc.

P. O. Box 488; tel: 110. (Main ofc: Baltimore, Md., USA) W. E. Dresser, Plant Mgr.; J. E. Greenbough, Asst. Mgr. 25,000 tons.

NOVA SCOTIA

HALIFAX

C—Canadian Industries (1954) Ltd.
(Main ofc: Montreal, Que.) Fraser Ross, Dist. Sales Mgr.; A. B. Tolmie, Wks. Mgr. 25,000 tons.

PORT WILLIAMS

C—Canada Packers, Ltd.
P. O. Box 130. (Main ofc: Toronto, Ont.) Frank I. Balcom, Mgr.; Gordon M. Gates, Supt. 10,000 tons.

SYDNEY

Dominion Steel & Coal Corp., Ltd.
(Main ofc: Montreal, Que.) 8,000 tons. Sulphate of ammonia.

WINDSOR

CD—Colonial Fertilizer Co., Ltd.
Nesbit St.; P. O. Box 50; tel: 3403. Lewis Bearne, Mngng. Dir. & Prod. Mgr.; Reuben Frank, Supt. & Pur. Agt. 30,000 tons. 4 mills, 40 tons per hr. each; 5 tractors; 4 belt conveyors; 1 weighing hopper system.

ONTARIO

CHATHAM

C—Canada Packers, Ltd.
Tel: 4304. (Main ofc: Toronto, Ont.) Jas. D. Browne, Local Mgr. 25,000 tons.

C—Canadian Industries (1954) Ltd.
Box 270. (Main ofc: Montreal, Que.) D. S. Aitken, Dist. Mgr.; Murray Smith, Wks. Mgr. 50,000 tons.

CORNWALL

CGHJ—Hy-Trous Co. of Canada
Box 1167; tel: 5600. E. J. Kaneb, Pres. & Gen. Mgr. 10,000 tons. 60-ton batch hopper; 1-ton weigh hopper; complete conveyor system.

DELHI

C—Ontario Plant Foods, Ltd.
G. A. Roe, Gen. Mgr. 15,000 tons.

ELMIRA

C—Read Bros. Fertilizers, Ltd.
Union St. J. C. Read, Pres.; H. B. Read, Sec.-Treas. 10,000 tons.

GALT

CI—Manchester Products
85 Amslie St., S.; tel: 2137 & 1495. I. K. Martin, Owner, Pur. Agt. & Mgr. Pesticide Div.; R. I. Martin, Sec. 2-3,000 tons. (Sheep manure, bone meal, peat moss, pesticides.)

HAMILTON

AI—Canadian Industries (1954) Ltd.
Main ofc: Montreal, Que.) C. W.

Jarvis, Dist. Mgr.; H. M. Jones, Wks. Mgr.; H. G. Sewell, Dist. Sales Mgr. 140,000 tons superphosphate; 50,000 tons mixed fertilizer.

Hamilton By-Products Coke Ovens, Ltd.

82-84 King St., East. T. P. Pinckard, Gen. Mgr.; F. R. Palin, Sec.-Treas.; J. Campbell, Supt.; M. M. Brodie, Pur. Agt. 2,200 tons.

Steel Co. of Canada, Ltd.

73 Garfield Ave., South. E. A. Taylor, Sales Mgr. 13,000 tons. Sulphate of ammonia.

INGERSOLL

C—Wm. Stone Sons, Ltd.
Pemberton St.; tel: 21. F. H. Stone, Pres.; A. E. Izzard, V.P.; L. A. Westcott, Treas.-Sec.; R. A. Stone, Gen. Mgr. & Pur. Agt.; G. W. Pittock, Plant Supt.; M. A. Poole, Sales Mgr.; G. W. Lockhart, Ofc. Mgr. 50,000 tons. 2 mills, 20-25 tons per hr. each; Payloaders; belt conveyors; hopper system; fork lift trucks.

KITCHENER

Burns & Co., Ltd.
(Main ofc: Calgary, Alta.) Organic fert. plant.

LONDON

CGH—Na-Churs Plant Food Co., (Canada) Ltd.

2 Langarth St.; tel: 2-6738. B. Peterson, Pres.; H. Petrick, V.P.; R. A. Bagley, Sec.-Treas.; E. McLachlan, Gen. Mgr. Mfg. 500,000 gal. liq. fert.

NIAGARA FALLS

North American Cyanamid Co., Ltd.
(Main ofc: Toronto, Ont.) Calcium cyanamid & ammonium nitrate.

NORWICH

CDF—Witts Fertilizer Works, Ltd.
Box 157; tel: 204. F. C. Bishop, Pres.; C. F. Bishop, V.P. & Pur. Agt.; J. C. Beattie, Sec.; J. W. Sinclair, Plant Mgr. 20,000 tons. 3 mills; 40 tons per hr. each; conveyor belts; hopper system for mixing; 2 complete bagging units; bulk shipping facilities.

PORT DOVER

CD—Misner Fertilizers
J. H. Misner, Pres. & Mgr.; O. W. Misner, V.P.; Ida A. Misner, Sec.-Treas. 7,000 tons.

PORT HOPE

C—Agricultural Chemicals, Ltd.
P. O. Box 250. M. J. Daignault, Mgr.; J. E. Morgan, Supt. Plant also at Fort Chambly, Que.

PORT ROBINSON

North American Cyanamid Co., Ltd.
(Main ofc: Toronto, Ont.) Calcium & ammonium nitrate.

SAULT STE. MARIE

Algoma Steel Corp., Ltd.

C. C. Weeks, Sales Mgr. 14,000 tons. Sulphate of ammonia.

THAMESVILLE

C—United Cooperatives of Ontario

Box 448; tel: 129. (Main ofc: W. Toronto, Ont.) Earl M. Grose, Mgr.; Ed Martin, Supt. 10,000 tons. Grinding mill; 1-ton mixer; St. Regis bagging equipment.

TORONTO

Canada Packers, Ltd.—Fertilizer & Feed Div.

2200 St. Clair Ave., West; tel: Rodney 4311. Head Office only: J. S. McLean, Pres.; G. A. Schell, Asst. to Pres.; N. J. McLean, V.P.; A. J. E. Childs, Sec.-Treas.; T. J. Payne, Fert. & Feed Mgr.; Alex Mooney, Fert. & Feed Sales Mgr.; W. A. Buie, Supt. & Prod. Mgr.; Don Brock, Pur. Agt. Plants: Chatham, Welland Junction & West Toronto, Ontario; Montreal & Ste. Foy, Quebec; East St. John, N. B.; Summerside, P. E. I.; Port Williams, N. S.; Presque Isle, Me., USA.

North American Cyanamid Co., Ltd.

Head Office, 2004 Royal Bank Bldg. W. R. Geddes, Mgr.; A. T. Sinclair, Sales Mgr. Plants at: Niagara Falls & Port Robinson, Ont.

C—Swift Canadian Co., Ltd.—Plant Food Div.

Box 39, New Toronto, Ontario. E. R. Olsen, Mgr.

C—Gordon Young, Ltd.

166 Keating St.; tel: EM 3-3636. Gordon V. Young, Pres.; W. A. Young, V.P.; J. A. Empringham, Treas.; G. W. Young, Sec.; Gary E. Young, Plant Mgr. & Pur. Agt.; John M. Wise, Prod. Mgr.

WELLAND

C—Canada Packers, Ltd.

Tel: 5563. (Main ofc: Toronto, Ont.) T. J. Payne, Plant Mgr.; Alex Mooney, Sales Prod. Mgr. 18,000 tons.

WEST TORONTO

C—Canada Packers, Ltd.

2200 St. Clair Ave. W.; tel: Rodney 4311. Alex Mooney, Sales Mgr.; T. J. Payne, Mgr.; Willis Buie, Prod. Mgr.; Don Brock, Pur. Agt. 50,000 tons.

CIJ—United Cooperatives of Ontario

Fertilizer & Agricultural Chemical Division, 4004 Dundas St., W. (Zone 9); tel: LYndhurst 8448 & 8449. Earl M. Grose, Mgr.; Sam Rankin, Supt. 12,000 tons. Grinding mill; 1-ton mixer; St. Regis bagging equipment. Plant also at Thamesville, Ont.

PRINCE EDWARD ISLAND

CHARLOTTETOWN

C—Island Fertilizers, Inc.

P. O. Box 361; tel: 5597. A. A. Scales, Pres.; Louis Sadler, V.P. & Supt.; L. H. Poole, Sec.-Treas. 25,000 tons. 1 mill, 30 tons per hr.; 1 Sturdevant mixing & shipping unit; 1 Sturdevant shipping unit; Lorain power shovel for stockpiling & reclaiming.

SUMMERSIDE

C—Canada Packers, Ltd.

(Main ofc: Toronto, Ont.) J. K. Leggatt, Maritime Mgr. 15,000 tons.

QUEBEC

BELOEIL

B—Canadian Industries, Ltd.

(Main ofc: Montreal, Que.) J. M. Bromley, Wks. Mgr.; H. H. Skelton, Dist. Sales Mgr. 140,000 tons superphosphate, 50,000 tons mixed fertilizer.

FORT CHAMBLEY

C—Agricultural Chemicals, Ltd.

Tel: 21. (Main ofc: Port Hope, Ont.) Albert LeGault, Supt. 2 mills.

LaPRAIRIE

C—William Houde, Ltd.

Wm. Houde, Pres. & Mgr.; J. A. Leclerc, Sec.-Treas. 12,000 tons. 1 mill, 75 tons per hr.; dual elevator system; scale hopper, belt conveyors to bins.

MONTREAL

C—Canada Packers, Ltd.

6000 St. Patrick St.; tel: Glenview 2881. (Main ofc: Toronto, Ont.) Delbert Dupre, Quebec Mgr.; A. Fredette, Plant Supt.; D. M. Smythe, Pur. Agt. 50,000 tons.

C—Canadian Industries (1954) Ltd.—Agricultural Chemicals Dept.

Head Office, P. O. Box 10. V. B. Lillie, Dept. Mgr.; J. W. Thompson, Sales Mgr.; L. V. Clegg, Prod. Mgr. Plants at: Halifax, N. S.; Beloeil & Montreal, Que.; Hamilton & Chatham, Ont. Montreal Works; 15,000 tons mixed fertilizer. S. Cree, Wks. Mgr.; H. H. Skelton, Dist. Sales Mgr.

CIE—Nord Africaine de L'Hyperphosphate Reno

1504 Mountain St. R. Oliver, Mgr.

The Consolidated Mining & Smelting Co. of Canada, Ltd.

Main Sales Office, 215 St. James St., West; tel: Avenue 8-3103. (Main ofc: Trail, B. C.) R. D. Perry, Gen. Mgr.; A. Wilkinson, Mgr. Chem. & Fert. Sales Div.

Dominion Potash, Ltd.

4404 St. Catherine St., W., Westmount (Zone 6). H. E. Lefevre, Pres. European potash importers.

Dominion Steel & Coal Corp., Ltd.

Head Office, Canada Cement Bldg., Phillips Square. T. H. McEvoy, Gen. Mgr. Plant at Sydney, N. S.

CHAMBLEY CANTON

C—Montreal Coke & Manufacturing Co.

P. O. Box 600. C. A. Teliman, Pres. & Mngng. Dir.; R. Latveille, V.P.; H. A. B. Stuffmann, Sec.-Treas.; J. G. Dowker, Pur. Agt.; L. T. Calhoun, Plant Mgr.; G. E. Jarvis, Mgr. Fert. Div. 5,000 N. T. ammonium phosphate.

QUEBEC

C—International Fertilizers, Ltd.

71 St. Peter St.; P. O. Box 609; tel: 2-3858. T. S. L. Pope, Pres.; H. Giroux, Sec.-Treas.; A. Lambert, Gen. Mgr.; C. A. Lepage, Sales Mgr.; L. A. Hanson, Plant Supt.; J. P. McHaffie, Prod. Mgr. 40,000 tons. 1 Sturdevant mixing unit, 30 tons per hr.; 1 granulating unit with Werkspoor dryer, 10-15 tons per hr.; 2 Sturdevant sacking units with Bates valve packers, 27 tons per hr. each; Forano & Stephens-Adamson conveyors; Sturdevant & Stephens-Adamson elevators; locally constructed hoppers; HA, HL & HF Hough Payloaders; bag conveyor belts to cars & Towmotor lift trucks for truck shipments. Plant also at: St. John, N. B.

STE. FOY

C—Canada Packers, Ltd.

(Main ofc: Toronto, Ont.) Delbert Dupre, Ontario Mgr.; R. Danereau, Local Mgr. 25,000 tons.

SASKATCHEWAN

PRINCE ALBERT

Burns & Co., Ltd.

(Main ofc: Calgary, Alta.) D. McLaren, Supt.; I. McCannon, Mgr.; E. Crowston, Prod. Mgr.; E. A. Myers, Pur. Agt. 800 tons organic fertilizer.

REGINA

Burns & Co., Ltd.

(Main ofc: Calgary, Alta.) Organic fert. plant.

CUBA

HABANA

C—The American Agricultural Chemical Co.

Reina Y Amistad, Palacio Aldama, 2do. Piso. (Main ofc: New York,

N. Y., USA) Philip B. Arms, Mgr.; A. Costales, Jr., Supt.

Armour & Co. S. A.—Fertilizer Dept.

166 Desamparados. (Main ofc: Armour Fertilizer Works, Atlanta, Ga., USA) O. J. Fischer, Mgr.

C—Cooperative Abonos Cuba, S. A.
Noriega No. 12, Luyano; tel: X-1483. Gabino Otero, Pres.; Carlos Maldonado & Emilio Diaz, V.P.'s.; Apifanio Arce, Treas.; Antonio Avila, Sec. (Plant Production & Purchasing Management handled jointly by officers.) 50,000 tons. 1 mill, 1 ton.

CDEFIJ—Pereda Fernandez Y Cia.
Villanueva y Aspuru; P. O. Box 411. Jesus Fernandez, Pres.; Luis Fernandez, V.P.; Ramon Llama, V.P., Plant Mgr. & Mgr. Pesticide Div.; Jose Gomez, Treas.; Pedro A. Villoldo, Sec. 20,000 tons. 1 mill; 1 mixer; vibrating screen; 2 elevators; 2 conveyor belts; 2 Payloaders; 1 hopper system. (1 man batch weight system).

CD—Perez Galan y Fernandez, S. L.
Desague No. 312; P. O. Box 209; tel: M-3772, A-4638 & U-1285. Manuel Perez Galan, Gen. Dir.; Angelberto Fernandez Ferrer, Exec.; Agustin Meizoro, Plant Mgr.; Joaquin Fernandez Ferrer, Prod. Mgr.; Joaquin Fernandez, Pur. Agt. 14,000 tons.

A—Productora de Superfosfatos, S.A.
Edificio Payret, San Jose y Prado; tel: W-5945. George F. McDonald, Pres.; Luis G. Mendoza & Augustin Batista, V.P.'s.; Faustino Leal, Sec.; Manuel Sierra, Plant Mgr.; Roberto Fernandez Morrell, Prod. Mgr. & Pur. Agt. 15,000 tons sulphuric acid; 40,000 tons superphosphate; 60,000 tons mixed fertilizers. 1 Raymond mill, 6 tons per hr.; 1 Sturtevant hopper system; Link-Belt elevators & conveyors.

Productora de Acidos y Fertilizantes, S. A.

(Now integrated with Productora de Superfosfatos, S. A.)

CD—Zaldo y Martinez, S. A.
Zanja No. 721 esquina a Hospital. Fernando Martinez Zaldo, Pres.; Aquiles Martinez & Ernesto do Zaldo, V.P.'s.; Aquiles Martinez, Treas.; Fernando Martinez Zaldo, Sec.; Jose A. Fernandez, Plant Mgr. 27,000 tons capacity; annual production 11,000 tons.

MATANZAS

C—Armour & Co. S. A.—Fertilizer Dept.
(Main ofc: Armour Fertilizer Works, Atlanta, Ga., USA.) O. J. Fischer (Havana, Cuba), Mgr. Sales Ofc.

HAWAIIAN ISLANDS

HONOLULU, OAHU

AEFGIJ—Pacific Chemical & Fertilizer Co.

Main ofc: 311 Pacific St.; P. O. Box 48 (Zone 10); tel: 5-3991. Ronald Q. Smith, Pres.; H. C. Eichelberger, F. W. Broadbent, W. G. Hewitt & G. B. Hayes, V.P.'s.; G. A. W. Hart, Treas. & Asst. Sec.; M. A. Pietschman, Sec.; J. S. Williamson, Asst. Treas.; W. J. L. Wilson, Gen. Supt.; C. J. Fette, Plant Supt. 50,000 tons. 2 mills, 25,000 tons each; conveyors & hopper systems, etc.; equipment by Sturtevant, Stedman, Bradley, Union Special, Clark, Hough, Austin-Western. Plants also at: Hilo, Kahului & Puhi; Mainland ofc: Berkeley 10, Calif.

HILO, HAWAII

CEGJ—Pacific Chemical & Fertilizer Co.

P. O. Box 395; tel: 3913. (Main ofc: Honolulu, Oahu.) E. L. Harker, Prod. Mgr. 45,000 tons. 2 mills, 25,000 tons each; conveyors & hopper systems, etc.

KAHULUI, MAUI

CEGJ—Pacific Chemical & Fertilizer Co.

P. O. Box 203; tel: Wailuku 33-5965. (Main ofc: Honolulu, Oahu.) G. F. Karr, Branch Plant Mgr.; Roger Knox, Prod. Mgr. 20,000 tons. 1 mill, 25,000 tons. Conveyors & hopper system, etc.

PUHI, KAUAI

CEGJ—Pacific Chemical & Fertilizer Co.

P. O. Box 766 (Lihue, Kauai, T.H.); tel: (Lihue) 2-6571. (Main ofc: Honolulu, Oahu.) Douglas E. Baldwin, Prod. Mgr. 25,000 tons. 1 mill; conveyors & hopper system, etc.

HOLLAND

UTRECHT

AD—Albatros Superfosfaatfabriek, N. V.

P. O. Box 45; 81 Maliebaan. J. D. Waller, Mng. Dir. 7,000 to 1,000,000 tons.

ISRAEL

HAIFA

A—Fertilizers & Chemicals, Ltd.

P. O. Box 1428. A. Reisner, Admin. Mgr.; Dr. E. Walter, Sec.; A. Goldberg, Mng. Dir.; P. Singer, Fin. Dir.; J. M. Fanto, Plant Mgr.; J. Motiuk, Prod. Mgr. 90,000 tons sulphuric acid; 100,000 tons superphosphate.

PUERTO RICO

ARECIBO

C—Marques Commercial, Inc.

215 Santiago Inglesias Ave.; P. O. Box 668; tel: 119 & 169. Bernardo Marques Ferra, Pres., Plant Mgr. & Pur. Agt.; Jose Marques Mayol, V.P. & Treas.; Lelis Mera Vda. Marques, Exec. Sec.; Galo Taulet Pineiro, Vice-Sec. & Vice-Treas. 10,000 tons. 1 mill; 1 hopper system.

CAGUAS

CJ—Cipriano Manrique, Inc.

Box 548. Enrique Manrique, Pres.; Martin Manrique, V.P. & Mgr. Pesticide Div.; Celestino Seneriz, V.P., Plant Mgr. & Pur. Agt.; Miguel A. Gonzalez, Treas.; Fernando Manrique, Sec. 10,000 tons.

GUANICA

C—Ochoa Fertilizer Corp.

Apartado 117. (Main ofc: Hato Rey, P.R.) Samuel Del Rosario, Plant Mgr.

HATO REY

AJ—Ochoa Fertilizer Corp.

Main office. Apartado 117. Luis R. Gonzalez, Pres.; Rafael M. Gonzalez, V.P.; Manuel V. Gonzalez, Treas.; Guillermo E. Gonzalez, Sec.; Isidoro A. Colon, Asst. Gen. Mgr.; Manuel Espino, Plant Mgr. 100,000 tons. Plants also at: Guanica & Ponce, P. R.

MAYAGUEZ

C—Super-A Fertilizer Works, Inc.

P. O. Box 599, tel: 678. Miguel A. Garcia Mendez, Pres.; Luis Rechani Agrait, V.P.; Armando Rovira, Treas. & Prod. Mgr.; Carlos Garcia Mendez, Sec. 30,000 tons. 1 mill.

PONCE

C—Ochoa Fertilizer Corp.

Apartado 1606. (Main ofc: Hato Rey, P.R.) Jose A. Dueno, Plant Mgr. 50,000 tons.

SAN JUAN

C—Armour Fertilizer Works

(Main ofc: Atlanta, Ga., USA.) Ochoa Bldg. A. W. Chandler, Div. Mgr.

C—San Miguel Fertilizer Corp.

Box 4391; tel: 2-0130. Marcelino San Miguel, Pres.; Manuel San Miguel, Jenaro San Miguel & Jose A. Martinez Roman, V.P.'s.; Luis de la Mata, V.P.—Sales; Guillermo Machargo, Treas.; Ana Maria Perez, Sec.; Jose M. Acosta, Plant Mgr.; Agents: S. M. H. Trading Corp., 70 pine St., New York, N. Y., USA. 80,000 tons. 2 Sturtevant batch mixers, 1 & 2 tons; 2 135-ft. 20-in Link-Belt conveyors; 3 45ft. Link-Belt bucket elevators; 10 Hough Payloaders.

BRITISH WEST INDIES

FALMOUTH, JAMAICA

Jamaica Fertilizer Products, Ltd.
Mae C. Whiteside, Pres.; William
A. Whiteside, V.P. & Plant Mgr.;
C. A. Clarke, Treas.

SWEDEN

KVANTORP

CDF—Swedish Shale Oil Co.
Tore Hedback, Plant Mgr.; Axel
Tidblom, Prod. Mgr. 40,000 tons. 3
mills, 240 tons per day; two con-
veyors.

BUYERS DIRECTORY

Page numbers of advertisements for the concerns listed in this section will be found on pages 176 and 177.

Abbe Engineering Co., Inc.

ent Mill Division
544 Union Ave., Brooklyn, N. Y.
Crushing, Grinding, Pulver-
izing, Mixing, Sifting and Air
Separating Machinery

Acme-Fisher Div.

Broadway Rubber Corp.
529 E. Broadway
Louisville 2, Ky.
Liquid fertilizer systems com-
pletely engineered and installed;
rubber lined tanks for phos-
phoric acid and nitrogen solu-
tions; dust control systems.

Alabama By-Products Corp.

P. O. Box 354
Birmingham, Alabama
Manufactures Sulphate of Am-
monia for shipment in bulk or in
bags.

The Albemarle Paper Mfg. Com-

pany, Richmond 17, Virginia
P. O. Box 2189.
Manufacturers of Multiwall
Paper Bags.

Allen Scale Company

774 Murphy Ave., S. W.
Atlanta 3, Georgia
Scales, Special Scale Fabrica-
tions, Scale Repair.

American Agricultural Chemical

Co., 50 Church St., New York 7,
N. Y.
Factories & Sales Offices:
Alexandria, Va. A — Baltimore,
Md. AE—Buffalo, N. Y. A—Cairo
(P. O. Box 158, Lima, Ohio) B—
Carteret, N. J. AE—Charleston, S.
C. A—Cincinnati, Ohio A—Cleve-
land, Ohio A—Columbia, S. C.
Sales Office Only—Detroit, Mich.,
AE—E. St. Louis, Ill. A—Greens-
boro, N. C. A—Havana, Cuba, C—
Henderson, N. C. C—Houlton,
Maine, Sales Office Only, Laurel,
Miss. Sales Office Only—Mont-
gomery, Ala. A—Norfolk, Va. C—
No. Weymouth, Mass. AE—Pensa-
cola, Fla. A—Pierce, Fla. A—Port

Hope, Canada C—Saginaw, Mich.
B—Savannah, Ga. AE—Spartan-
burg, S. C. C—Three Rivers, (Post
Office, Phoenix, N. Y.) C—Cayce,
S. C. A—Fulton, Ill. A—Searsport,
Me. C—Chambly, Quebec, Canada
C—

Commercial Fertilizers, Super-
phosphate, Ground Phosphate
Rock, Agrinite Tankage, Animal
Bone Charcoal, Bone Black Pig-
ments (Cosmic Black), Bone
Ash, Bone Oil, Precipitated Bone
Phosphate, Gelatin, Agricultural
Insecticides (including Pyro x,
Arsenate of Lead, Calcium Arse-
nate, etc.), Phosphodust, Trisodi-
um and Disodium Phosphate,
Phos-Feed Brand Dicalcium
Phosphate, Phosphoric Acid, Sul-
phuric Acid, Ammonium Carbon-
ate, Ammonium Silico-fluor-
ide, Magnesium Silico-fluoride,
Potassium Silico-fluoride, Alumi-
num Fluoride, Magnesium Bo-
ron Fluoride, Silico-fluoride Mix-
tures, Zinc Silico-fluoride, Sodi-
um Fluoride, Sodium Silico-fluor-
ide, Ammonium Fluoborate,
Elemental and Red Phosphorus,
Phosphorus Pentasulphide, Fer-
ro-Phosphorus, Phosphorus Ses-
quisulphide, Salt Cake; Dealers
in: Nitrate of Soda, Sulphate of
Ammonia, Cyanamid, Raw Bone
Meal, Steamed Bone Meal, Pot-
ash Salts. We mine and sell all
grades of Florida Pebble Phos-
phate Rock.

American Cyanamid Company, Agricultural Chemicals Division 30 Rockefeller Plaza, New York 20, N. Y.

Nitrogen Fertilizers: Calcium
Cyanamid, Granular and Pul-
verized and Ammonium Nitrate.
Anhydrous Ammonia and Sul-
fate of Ammonia, Florida Na-
tural Phosphate Rock for acidi-
lation and direct application.
Defoliant: Calcium and Sodium
Cyanamid. Weedkillers, Chemi-

cal Soil Conditioners, Insecti-
cides, and Fumigants.

American Limestone Company, Box 2389, Knoxville, Tenn.

Magnesium Limestone.
American Potash & Chemical Corp.,
3030 W. 6th St., Los Angeles 54,
Calif.

Agricultural Pentahydrate
Borax—44% B₂O₃ guaranteed
minimum, Borax—36.5% B₂O₃
(Guaranteed 99.5% pure). De-
hydrated Borax—63.5% B₂O₃.
Muriate of Potash—60% Grade.
Sulphate of Potash—50% Grade.

Armour Fertilizer Works. General Offices: 350 Hurt Building, P. O. Box 1685, Atlanta 1, Ga.

Complete Fertilizers, Fertilizer
Materials, Superphosphate, Tri-
ple Superphosphate, Sheep Ma-
nure.

Ashcraft-Wilkinson Company, Trust Co. of Ga. Bldg., Atlanta, Ga.

Fertilizer Materials, Cottonseed
Products, Sulphate of Ammonia,
Calcium Ammonium Nitrate,
Ammonium Sulphate Nitrate,
Nitrate of Lime, urea, Organic
Ammoniates, Vegetable Meals
and Feed Stuffs, Sulphur, Pot-
ash, All Grades Bone Meal, in-
cluding Raw-Steam and Feeding,
Fish Meal, Liver Meal, Ammoni-
ated Phosphate, Triple Super-
phosphates, Phosphate Rock,
Phosphate Rock Floats, Blood
and tankage, both domestic and
foreign nitrogenous tankage,
Limestone, Crude Ground Sul-
phur, Agricultural Insecticides
and Chemicals, Base Goods Fill-
ers & Conditioners, Agricultural
Gypsum Borate.

Atkins, Kroll & Company 417 Montgomery St. San Francisco, Calif.

Urea, Superphosphates, Triple
Superphosphate, Calcium Am-
monium Nitrate, Ammonium
Phosphates, Bloodmeal, Tank-
age, Fishmeal.

Atlanta Utility Works, The, East Point, Ga. (Suburb Atlanta, Ga.)

Assembly Hopper Units, Acidu-
lating Units, Architects & Engi-
neers, Bagging Machines, Bag-
ging Units, Basing Units, Bin
Valves, Bucket Elevators (steel)
Buckets, Carts, (Fertilizer),
Cluster Hoppers, Complete
Fertilizer Plants, Complete
Mixing Units, Complete Super-
phosphate Plants, Continuous
Ammoniators, Continuous Acid-
ulating Process Conveying Ma-
chinery, Conveyor Systems,
Dens & Excavators, Dry Mixers,
Dry Mixing Units, Elevator Cas-
ings (steel), Fertilizer Batching
Hoppers & Mixing Equipment,

Farmers - County Agents and ASC Office Managers

Will Approve Your Choice Of

DOLCITO Magnesian LIMESTONE For Your Fertilizer Mix

Agricultural authorities and farmers know that a TRUE DOLOMITIC limestone, like Dolcito, helps increase crop quality and production when used as fertilizer mix.

Dolcito Limestone contains by weight over 50% Calcium Carbonate and over 40% Magnesium Carbonate, a vital plant food mineral. It has a Calcium Carbonate equivalent of 100% or more. It more than meets State and Federal PMA and ASC specifications.

NOW GROUND IN THESE FOUR SIZES

FINE . . . REGULAR . . . COARSE

and also available this season for the first time in an—

EXTRA COARSE GRIND

Moisture Added As Desired To Bulk Shipments At No Additional Cost

We can moisten Dolcito Limestone from 1% to 5%, as requested, to curtail dust arising from handling.

AVAILABLE IN ANY QUANTITY

Truck load or train load, in box cars or open tops, at lower freight costs.

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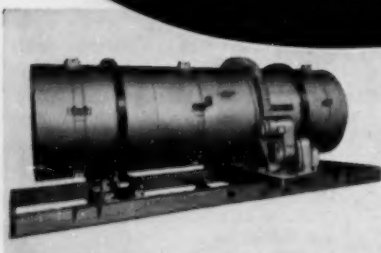
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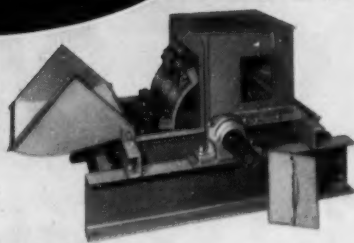
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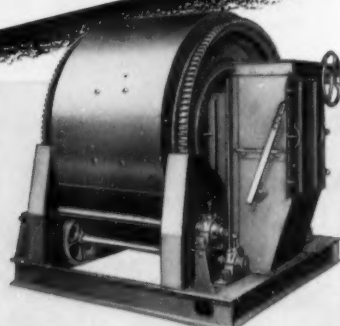
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Cost of Fertilizer
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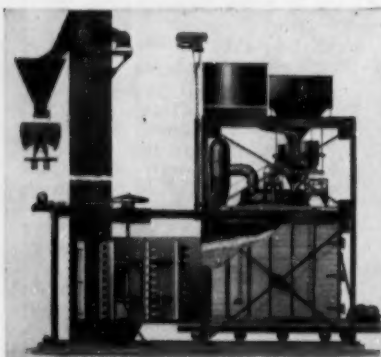
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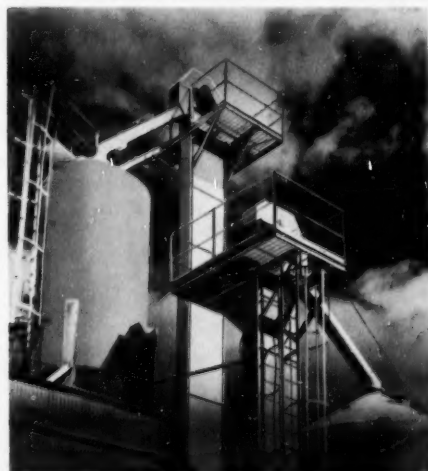
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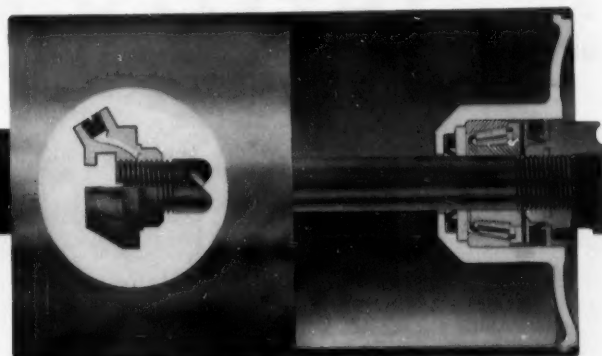
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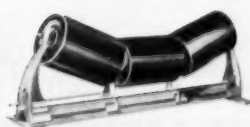
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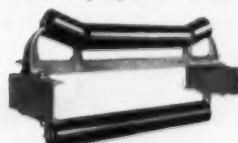
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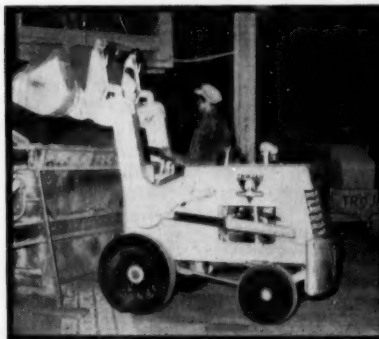
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**Morris Testing Laboratories,
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P. O. Box #803**

Analysts and Consulting Chemists.

**National Lead Company, Atlanta
Branch, P. O. Box 7008 Station
"C," Atlanta, Ga.**

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& Dye Corp., 40 Rector St., New
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**Nitrogen Products, Inc.
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**Northern Chemical Industries, Inc.,
Searsport, Maine. (A subsidiary of
Summers Fertilizer Co., Inc., Bal-
timore, Md.)**

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Illinois, 630 Shatto Place, Los
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Muriate of Potash

Spalding Foundry Company
See Baldwin Foundry & Machine Corp.

Spencer Chemical Co.,
Dwight Building,
Kansas City 5, Mo.

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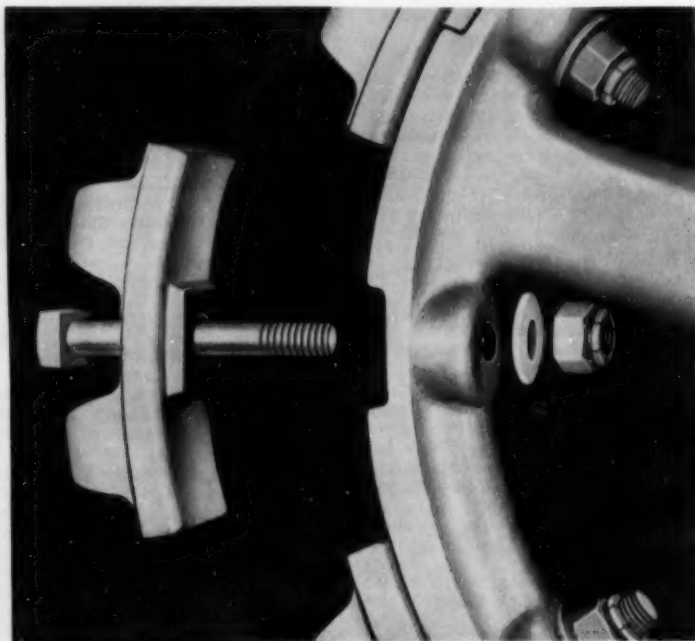
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| Magnesium content | —CaCO ₃ value | 44.23% |
| Calcium Carbonate | —Equivalence | 96.70% |

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Fertilizer Equip. Sales Corp.
Southern Lead Burning Co.

ACID HANDLING PRODUCTS

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ACID PLANT CONSTRUCTION

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ACID PUMPS

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Southern Lead Burning Co.

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ACIDULATED FISH (See Fish Scrap)

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Baker & Bro., H. J.
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Keim, Samuel D.
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& Dye Corp.
Synthetic Nitrogen Products Cor-
poration

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AMMONIUM SULFATE See Sulphate of Ammonia

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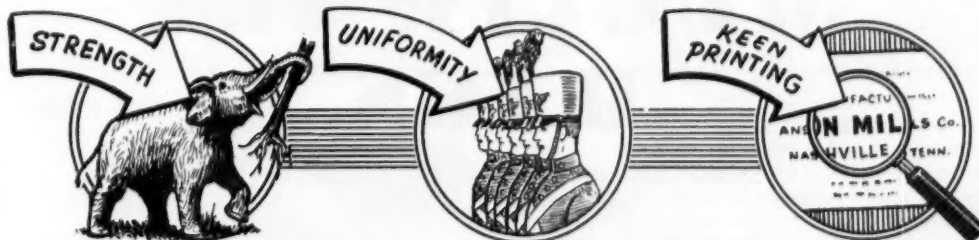
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Davidson-Kennedy Co.
Fertilizer Engineering & Equip. Co.
Fertilizer Equip. Sales Corp.
John J. Harte Company
Lakeland Engineering Associates,
Incorporated
Link-Belt Co.
A. J. Sackett & Sons Co.
D. M. Weatherly Co.

DETERGENTS

The American Agric. Chemical Co.
Tennessee Corp.
Ultra Chemical Works, Inc.

DI-CALCIUM PHOSPHATE

Bradley & Baker
Woodward & Dickerson, Inc.

DILUENTS & CONDITIONERS

The Dickerson Co., Inc.
Minco Products Corp.
Zonolite Co., Terra-Lite Div.

DISODIUM PHOSPHATE

American Agricultural Chemical
Co.

DISINTEGRATORS

Link-Belt Co.
A. J. Sackett & Sons Co.
Stedman Foundry and Machine Co.,
Inc. Subsidiary of United Engi-
neering and Fdy. Co.

DOLOMITIC LIMESTONE

The J. E. Baker Co.
Dolcito Quarry Co.
Willingham-Little Stone Company

DOUBLE SUPERPHOSPHATE

See Superphosphate
**DOUBLE SULPHATE OF POTASH
—MAGNESIA**

International Minerals & Chemical
Corp.

DRIED BLOOD

See Blood

DRIED FISH

See Fish Scrap

DRIED SLUDGE

H. J. Baker & Bro.

DRIVES

Continental Gin Co.
Davidson-Kennedy Co.
Fertilizer Engineering & Equip. Co.
Fertilizer Equip. Sales Corp.
Link-Belt Co.

DRUMS

Link-Belt Co.

DRYERS—(Rotary)

Davidson-Kennedy Co.
J. B. Ehrsam & Sons Mfg. Co.
Fertilizer Engineering & Equip. Co.
Fertilizer Equip. Sales Corp.
General American Transportation
Corporation

Jeffrey Mfg. Co.
Link-Belt Co.
D. M. Weatherly Co.

DRYING MACHINERY

General American Transportation
Corporation
Link-Belt Co.
Raymond Division, Combustion
Engineering, Inc.
Edw. Renneburg & Sons Co.
A. J. Sackett & Sons Co.

DRY MIXING UNITS

The Atlanta Utility Works
Davidson-Kennedy Co.
Fertilizer Engineering & Equip. Co.
Fertilizer Equip. Sales Corp.
Link-Belt Co.
A. J. Sackett & Sons Co.
Sturtevant Mill Co.

DUCTS

Acme-Fisher Div., Broadway Rubber
Corp.

DUST COLLECTING EQUIPMENT

Acme-Fisher Div., Broadway Rubber
Corp.
Davidson-Kennedy Co.
Fertilizer Engineering & Equipment
Company
Fertilizer Equip. Sales Corp.

A. J. Sackett & Sons Co.
Southern Steel Equip. Co.
D. M. Weatherly Co.

ELECTRIC VIBRATING CONVEYORS

Fertilizer Engineering & Equip. Co.
Fertilizer Equip. Sales Corp.
Link-Belt Co.

ELEVATORS

Atlanta Utility Works
Continental Gin Co.
Davidson-Kennedy Co.
J. B. Ehrsam & Sons Mfg. Co.
Fertilizer Engineering & Equip. Co.
Fertilizer Equip. Sales Corp.
Jeffrey Mfg. Co.
Edw. Renneburg & Sons Co.
Savannah Mach. & Fdy. Co.
Stedman Foundry & Machine Co.,
Inc. Subsidiary of United Engi-
neering & Fdy. Co.
Sturtevant Mill Co.

ELEVATOR BUCKETS

Atlanta Utility Works
Continental Gin Co.
Fertilizer Engineering & Equip. Co.
Fertilizer Equip. Sales Corp.
Jeffrey Mfg. Co.
Link-Belt Co.
A. J. Sackett & Sons Co.
Stedman Foundry & Machine Co.,

Inc. Subsidiary of United Engi-
neering & Fdy. Co.
Sturtevant Mill Co.

ELEVATOR BOOTS

Fertilizer Equip. Sales Corp.
Jeffrey Mfg. Co.
Link-Belt Co.
Sturtevant Mill Co.

ELEVATOR CASINGS—(Steel)

The Atlanta Utility Works
Fertilizer Engineering & Equip. Co.
Fertilizer Equip. Sales Corp.
Jeffrey Mfg. Co.
Link-Belt Co.
Stedman Foundry & Machine Co.,
Inc. Subsidiary of United Engi-
neering & Fdy. Co.
Sturtevant Mill Co.

EMULSIFIERS

(See Wetting Agents)

ENGINEERS

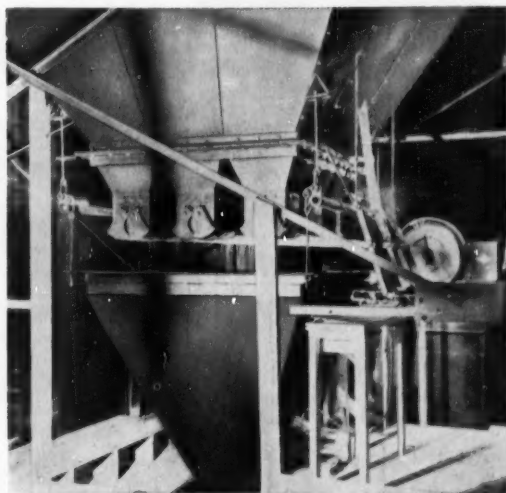
(Chemical and Industrial)

Atlanta Utility Works
Davidson-Kennedy Co.
J. B. Ehrsam & Sons Mfg. Co.
Fertilizer Engineering & Equip. Co.
Fertilizer Equip. Sales Corp.
John J. Harte Co.
Lakeland Engineering Associates,
Inc.

FERTILIZER MACHINERY

- MIXERS
- AMMONIATORS
- HOPPER SYSTEMS
- AUTOMATIC SOLUTION TANKS
- VIBRATING SCREENS
- PULVERIZERS
- CLOD BREAKERS
- ELEVATORS
- CONVEYORS
- GRANULATING PLANTS
- SUPERPHOSPHATE PLANTS
- TRIPLE SUPERPHOSPHATE PLANTS

D-K Fertilizer Machinery has been designed to save you, the operator, time, money and manpower in the manufacture of fertilizer. Each machine is designed to perform a specific operation efficiently and economically and is readily adaptable to any size plant.



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of Complete Fertilizer Plants and Equipment*

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GEORGIA

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A. J. Sackett & Sons Co.
Stedman Foundry & Machine Co.,
Inc.
Sturtevant Mill Co.
D. M. Weatherly Co.

FANS—(Exhaust)
Davidson-Kennedy Co.
Fertilizer Engineering & Equip. Co.
Fertilizer Equip. Sales Corp.

FEEDERS
Continental Gin Co.
Davidson-Kennedy Co.
Fertilizer Engineering & Equip. Co.
Fertilizer Equip. Sales Corp.
Jeffrey Mfg. Co.
Link-Belt Co.
D. M. Weatherly Co.

FEED PRODUCTS
The American Agric. Chemical Co.
Ashcraft-Wilkinson Co.
H. J. Baker & Bro.
Bradley & Baker
Calumet Division
International Ore & Fertilizer Corp.
Samuel D. Keim
Tennessee Corp.
Woodward and Dickerson, Inc.

FERRIC IRON SULPHATE
Tennessee Corp.

FERRO-PHOSPHORUS
American Agricultural Chemical Co.
Monsanto Chemical Company

FERTILIZER ANALYSTS
See Chemists—Analytical and Consulting

FERTILIZER COMPOUNDS
Nitrogen Division, Allied Chemical
& Dye Corp.
Synthetic Nitrogen Products Corp.

FERTILIZER GRANULATING PLANTS
Davidson-Kennedy Co.
Fertilizer Engineering & Equip. Co.
Fertilizer Equip. Sales Corp.
John J. Harte Company
Link-Belt Co.
Sturtevant Mill Company

FERTILIZER BORATE
Ashcraft-Wilkinson Co.
Alex. M. McIver & Son
Pacific Coast Borax Co.
Tennessee Corp.

FERTILIZER EQUIPMENT
The Atlanta Utility Works
Continental Gin Co.
Fertilizer Engineering & Equip. Co.
Fertilizer Equip. Sales Corp.

FERTILIZER CARTS—(See Carts)
FERTILIZER MACHINERY
The Atlanta Utility Works
Baldwin Foundry & Machine Corp.
Continental Gin Co.
Davidson-Kennedy Co.
Fertilizer Engineering & Equip. Co.
Fertilizer Equip. Sales Corp.
Jeffrey Mfg. Co.
Link-Belt Co.

Raymond Division, Combustion
Engineering, Inc.
A. J. Sackett & Sons Company
Savannah Mach. & Fdy. Co.
Stedman Foundry & Machine Co.,
(Subsidiary of United Engineering
& Foundry Company)
Sturtevant Mill Co.

FERTILIZER MATERIALS
American Agric. & Chemical Co.
American Potash & Chem. Corp.
Armour Fertilizer Works
Ashcraft-Wilkinson Co.
H. J. Baker & Bro.
Bradley & Baker
Calumet Division
Commercial Solvents Corp.
Continental Gin Co.
Davison Chemical Co., Div. of W. R.
Grace & Co.
The Dickerson Co., Inc.
International Minerals & Chemical
Corp.
Lion Oil Co.
Nitrogen Div. Allied Chemical &
Dye Corp.
Planters Phos. & Fert. Co.
Potash Co. of America.
A. F. Pringle & Co., Inc.
Robertson Chemical Corporation
F. S. Royster Guano Co.
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Summers Fertilizer Co., Inc.
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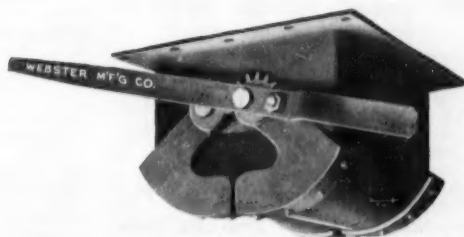
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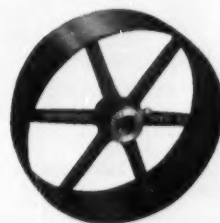
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Lakeland Engineering Associates,
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Link-Belt Co.
A. J. Sackett & Sons Co.
Stedman Foundry & Mach. Co., Inc.
Sturtevant Mill Co.
D. M. Weatherly Co.

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(See Complete Fertilizer Plants)

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Agricultural Chemicals Division
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The J. E. Baker Co.
The Dickerson Co., Inc.
Alex. M. McIver & Son
Minco Products Corp.
Quaker Oats Co., Chemical Dept.
Woodward & Dickerson, Inc.
Zonolite Company, Terra-Lite Division

FISH MEAL

(See Fish Tankage)

FISH OIL—(Brokers)

(See Fish Tankage)

FISH SCRAP

(See Fish Tankage)

FISH TANKAGE

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Atkins, Kroll & Co.
Bradley & Baker
International Minerals & Chemical Corporation

Samuel D. Keim
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Summers Fertilizer Co., Inc.
Woodward & Dickerson, Inc.

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Raymond Division, Combustion Engineering, Inc.

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Agricultural Chemicals Division
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Savannah Mach. & Fdy. Co.
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Fertilizer Engineering & Equip. Co.
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A. J. Sackett & Sons Co.
D. M. Weatherly Co.

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American Cyanamid Co., Agric. Chemicals Div.

FUNGICIDES

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Tennessee Corp.
Woolfolk Chemical Works, Ltd.

**GARBAGE TANKAGE
GATES**

(See Tankage)

(See Valves and Gates)

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Link-Belt Co.
Savannah Mach. & Fdy. Co.
Webster Manufacturing, Inc.

GEARMOTOR

Link-Belt Co.

GELATINE

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**GRANULAR-NITROGEN
FERTILIZER**

American Cyanamid Company
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A. J. Sackett & Sons Co.
D. M. Weatherly Co.

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Fertilizer Equip. Sales Corp.

GRINDERS

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Jeffrey Mfg. Co.

GRINDING EQUIPMENT

Jeffrey Mfg. Co.
Raymond Division, Combustion Engineering, Inc.

GRIT WASHERS

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Link-Belt Co.

GYPHUM MACHINERY

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HAMMER MILLS

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Jeffrey Mfg. Co.
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Inc. Subsidiary of United Engineering & Fdy. Co.

HEAD BREAKERS

The Atlanta Utility Works
Davidson-Kennedy Co.

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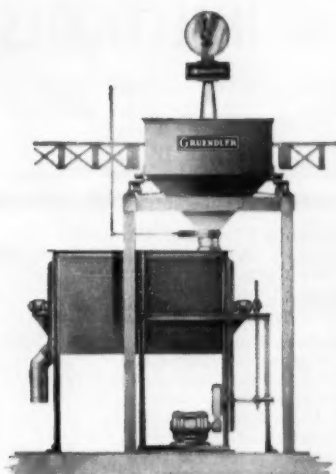
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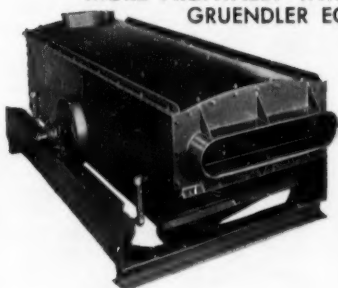
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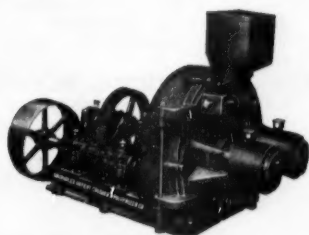


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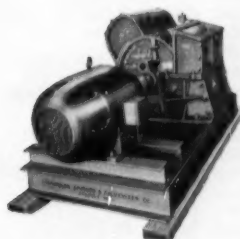
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DIVISION



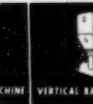
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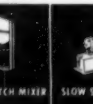
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Fertilizer Equip. Sales Corp.
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Savannah Mach. & Fdy. Co.

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Fertilizer Engineering & Equip. Co.

HOPPER, TRACK
Link-Belt Co.

HOPPER VALVES
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Davidson-Kennedy Co.
Fertilizer Engineering & Equip. Co.
Fertilizer Equip. Sales Corp.
Link-Belt Co.
Savannah Mach. & Fdy. Co.

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Davidson-Kennedy Co.
Fertilizer Engineering & Equip. Co.
Fertilizer Equip. Sales Corp.
Link-Belt Co.
Savannah Mach. & Fdy. Co.
Stedman Foundry & Machine Co.,
Inc. Subsidiary of United Engi-
neering and Fdy. Co.

Sturtevant Mill Co.

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Fertilizer Engineering & Equip. Co.
Fertilizer Equip. Sales Corp.
Jeffrey Mfg. Co.
Link-Belt Co.
Webster Manufacturing, Inc.

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American Cyanamid Co., Agric.
Chemicals Div.
Ashcraft-Wilkinson Co.
Commercial Solvents Corp., Agric.
Div.

Mackwin Co., The
Monsanto Chemical Company
Nitrogen Division, Allied Chem. &
Dye Corp.
Wilson & Toomer Fertilizer Co.
Woodward & Dickerson, Inc.
Woolfolk Chemical Works, Ltd.

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D. M. Weatherly Co.

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Tenn. Corp.

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Engineering, Inc.

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Robertson Chemical Corp.
Royster Guano Co., F. S.

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Southern Lead Burning Co.

LEAD ACID RESISTING FANS
Southern Lead Burning Co.

LEAD BURNING
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LEAD COILS
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See Agricultural Lime

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Fertilizer Engineering & Equipment Co.

Fertilizer Equip. Sales Co.
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Sackett & Sons Co., The A. J. Sturtevant Mill Company

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Fertilizer Engineering & Equip. Co.
Jeffrey Mfg. Co.
Link-Belt Co.
Raymond Division, Combustion Engineering, Inc.
A. J. Sackett & Sons Co.
Stedman Foundry & Machine Co., Inc. Subsidiary of United Engineering & Fdy. Co.
Sturtevant Mill Co.

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Fertilizer Equip. Sales Corp.
Jeffrey Mfg. Co.
Link-Belt Co.
Stedman Foundry & Machine Co., Inc. Subsidiary of United Engineering & Fdy. Co.
Sturtevant Mill Co.

MACHINERY—(Fertilizer)
(See Fertilizer Machinery)

MACHINERY—(Mixing)
See Mixing Machinery

MACHINERY—(For Grinding)
Abbe Engineering Company, Kent Mill Div.
Fertilizer Engineering & Equip. Co.
Raymond Division, Combustion Engineering, Inc.
Stedman Foundry & Machine Co., Inc. Subsidiary of United Engineering & Fdy. Co.
Sturtevant Mill Co.

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Fertilizer Equip. Sales Corp.
Jeffrey Mfg. Co.
Link-Belt Co.
A. J. Sackett & Sons Co.
Stedman Foundry & Machine Co., Inc. Subsidiary of United Engineering & Fdy. Co.
Sturtevant Mill Co.

MACHINERY
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Link-Belt Co.
Sturtevant Mill Co.

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Sturtevant Mill Co.

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Savannah Mach. & Fdy. Co.

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H. J. Baker & Bro.

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(See Potash Materials)

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Stedman Foundry & Machine Co.,
Inc. Subsidiary of United Engi-
neering & Fdy. Co.

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The A. J. Sackett & Sons Co.

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Tennessee Corp.

MINERAL SALTS

Tennessee Corporation

MINING MACHINERY

Sturtevant Mill Co.

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Davison Chemical Co., Div. of W. R.
Grace & Co.
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Tennessee Corp.
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Link-Belt Co.

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Kent Mill Div.
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Fertilizer Equip. Sales Corp.
Gruendler Crusher & Pulverizer Co.
Jeffrey Mfg. Co.
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Sturtevant Mill Co.
Worthington Corporation, Industrial
Mixer Division

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Inc. Subsidiary of United Engi-
neering & Fdy. Co.

MIXING PLOWS

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Savannah Mach. & Fdy. Co.

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Sturtevant Mill Co.

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Bradley & Baker
International Minerals and Chemi-
cal Corporation
International Ore & Fert. Corp.
Potash Co. of America
Potash Import & Chem. Corp.
Southwest Potash Corporation
Synthetic Nitrogen Products Corp.
United States Potash Co.
Woodward & Dickerson, Inc.

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Smith-Rowland Company
United Fertilizer Company
Woodward & Dickerson, Inc.

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Commercial Solvents Corporation
Agricultural Division
Lion Oil Co.
Phillips Chemical Co.
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John J. Harte Company

NITROGEN

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H. J. Baker & Bro.
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Smith-Rowland Company
United Fertilizer Company
Woodward & Dickerson, Inc.

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See Fertilizer Materials

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American Cyanamid Co., Agric. Chemicals Div.

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PHOSPHODUST

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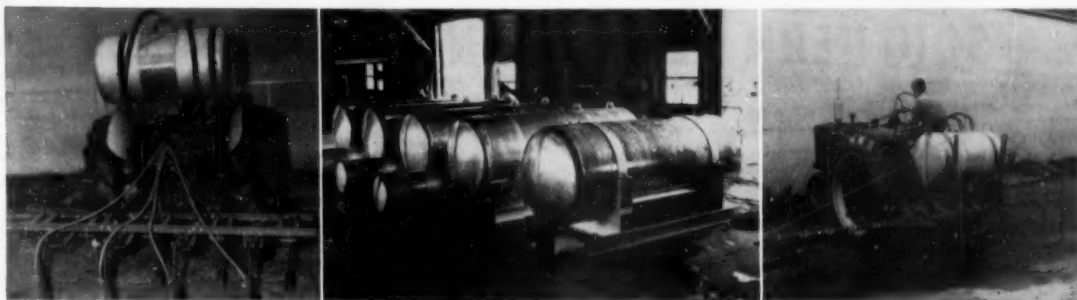
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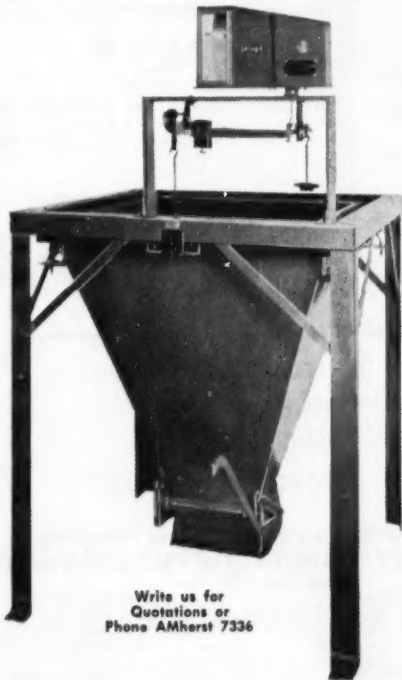
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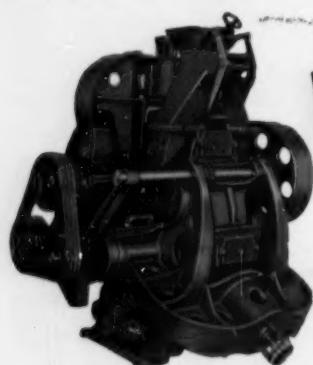
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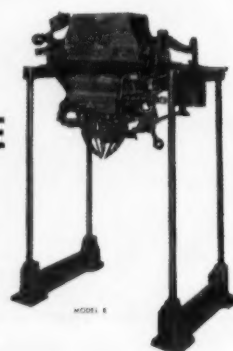
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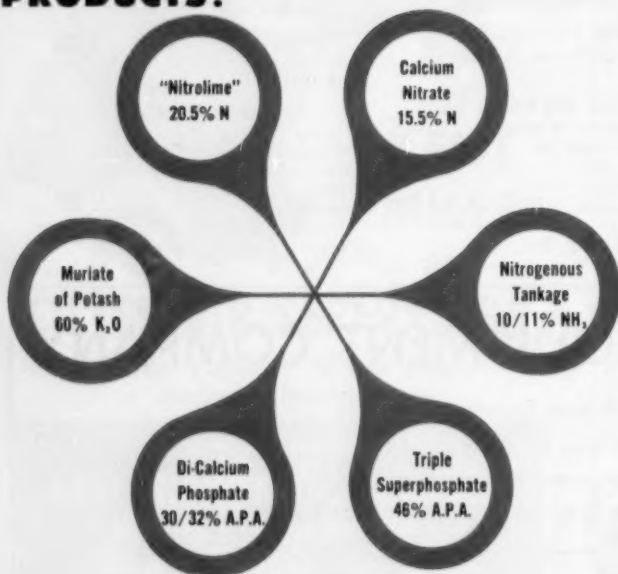
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WEEDKILLERS

See Herbicides

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WEIGHING HOPPERS & MACHINES

See Scales

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Nitrogen Division, Allied Chemical
& Dye Corporation
Monsanto Chemical Company
Tennessee Corporation
Ultra Chemical Works, Inc.
U. S. Phosphoric Products, Div.
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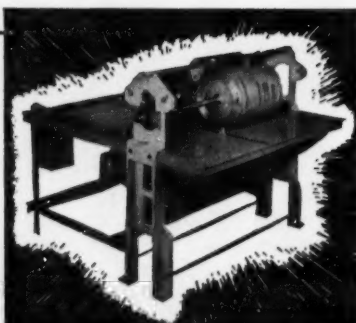
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